

Annual Report

2012

State of Illinois

Green Governments Coordinating Council



www.green.illinois.gov



STATE OF ILLINOIS
OFFICE OF THE GOVERNOR
SPRINGFIELD, ILLINOIS 62706

Pat Quinn
GOVERNOR

January 3, 2013

Dear Green Government Coordinating Council liaisons,

Sustainable governance is a fundamental obligation of our generation. It is our responsibility to leave the next generation with a clean, green Land of Lincoln while imparting the necessary skills to preserve our ecosystem in the face of future environmental challenges. This task must begin within state government and I am proud to chair the Green Governments Coordinating Council (GGCC) that sustains a green ethos throughout State operations.

This 2012 GGCC Annual Sustainability Report outlines the innovative sustainability initiatives unfolding across our state agencies, boards, and public institutions. This year we received an unprecedented wealth of quantitative and qualitative data from reporting entities. This data achieves the dual feat of highlighting our successes while providing a roadmap for future improvement. I want to emphasize the contributions of the Department of Corrections which provided aggregated data from across all of their correctional facilities in the State. Utilization of alternative transportation increased dramatically. Efforts to educate and involve state agencies internally were pursued so persistently that landscaping, sustainability education, recycling, and waste reduction are represented much more prominently this year than in 2011.

Our success as an administration is a product of coordinated collaboration every year. It is also critical to recognize the sustainable improvements made within the State every year. The 2012 report reflects State initiatives progress as well as broader trends that highlight the environmental priorities that constituted these efforts. It is important to learn from what has been done so we can continue to move forward in the years to come.

I believe this report will reenergize our sustainability efforts and elevate Illinois as a national model of conscientious State governance. Of course, our work is never complete and I know that we will sustain our momentum in future years.

Sincerely,

A handwritten signature in cursive script that reads "Pat Quinn".

Pat Quinn
Governor

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I. Introduction

The Green Governments Coordinating Council is proud to publish this eighth annual report for the 2012 fiscal year (July 1st 2011 to July 1st 2012). The report highlights green initiatives and sustainability successes achieved by Council members and by constitutional offices, state agencies, boards, commissions, and educational institutions throughout Illinois.

Background

The Illinois Green Governments Coordinating Council (GGCC) was originally formed by Executive Order in 2000. However, the enactment of the Green Governments Illinois Act (20 ILCS 3954) in the fall of 2007 formally established the Council in Illinois statute.

With the enactment of the Green Governments Illinois Act, the Council grew in membership and authority.

Chaired by **Governor Pat Quinn**, a representative from the Lt. Governor's Office, and comprised of 14 state agency members, the Council seeks to "integrate more fully into the ongoing management systems, long-range planning, and daily operations of State agencies a number of cost-effective environmental sustainability measures that enhance health and safety, reduce the consumption of energy and fuels, conserve water, minimize emissions and reduce solid and hazardous wastes" (20 ILCS 3954/10).

For FY2012 reporting, GGCC continued to use an Excel template. While the Excel template serves to assist state agencies in meeting the requirements of the Green Governments Illinois Act, it is also available as a tool to guide other institutions—particularly universities, colleges, schools, and local governments—in tracking and planning their own sustainability programs and initiatives.

Scope

Sustainability assessment, planning, and reporting cover seven operational areas that reach across the key opportunities for greening state operations and policies:

- *Office Operations*—Document production, distribution, and communications;
- *Recycling*—Paper, glass, metal, oil, cardboard, batteries, aluminum, etc.;

- *Purchasing of Goods and Services*—Procurement of paper, office supplies, and electronics;
- *Transportation*—Vehicle use and maintenance, conventional and alternative fuel consumption, and use of transportation alternatives;
- *Facilities Management*—Energy efficiency, water conservation, green cleaning, waste reduction, retrofitting and alternative energy;
- *Landscaping and Construction*—Green building certification (e.g., LEED), gardening, local food production, green construction materials, and demolition recycling; and
- *Education and Outreach*—Employee education and awareness, Green Team communication and activities, contests, and awards programs.

The Structure of the report reflects these operational areas, though many initiatives fall in two or more categories. The report recognizes individual agency accomplishments but also highlights interagency cooperation—a key to sustainable operations. The "Caught Green Handed" profiles recognize outstanding individual achievement, emphasizing that all agency accomplishments are achieved through the concerted efforts of dedicated personnel.

Report Highlights

This year state agencies and institutions have made great strides in pursuing energy efficiency and alternative transportation. A wide variety of departments have reduced energy consumption with ambitious retrofits, consumed less paper in favor of electronic communication, and purchased more materials with environmentally friendly attributes. In addition, state agencies and institutions have expanded an impressive array of recycling efforts on various scales. What follows are but a few of the many impressive accomplishments reported this year.

The Office of Central Management Services, Governor's Office, Department of Revenue and the Department of Commerce and Economic Opportunity have purchased, utilized and otherwise taken advantage of electric vehicles and their charging stations. Across the board, a reduction in paper consumption and increased use of electronic communication was consistent among all

reporting agencies. Already a green leader, the Illinois Department of Corrections has continued to expand its recycling and local food programs, making a positive impact on local communities and saving taxpayer dollars. All reporting universities, led by the University of Illinois Urbana Champaign, are improving operations, education, and outreach and on various levels, creating a robust sustainable culture on Illinois campuses.

Executive Initiatives

As Chairman of the Council, Governor Pat Quinn and his office's staff coordinated a number of cornerstone initiatives on behalf of the Council this year, including the sixth annual Sustainable Universities and Colleges Symposium. The symposium - hosted by the Illinois GGCC, the Illinois Green Economy Network, and Heartland Community College - featured workshops, panel and break out discussions, exhibits, and speakers who addressed topics such as sustainable transportation and green business techniques. This year there was a record number of panels, participants, and presenters, with over 300 attendees enjoying approximately [17 panels that spanned higher education sustainability issues](#). Topics included local foods, urban agriculture, energy research, and bike sharing.

This fiscal year also marked the reinstitution of the [Illinois Campus Sustainability Compact](#), which outlines environmental goals that colleges and universities -- both public and private -- may adopt on their campuses. The Compact includes objectives such as purchasing renewable energy, implementing green building practices, developing sustainable transportation options, improving water conservation, and

incorporating sustainable dining practices. As a campus makes progress on its sustainability goals, it can apply for recognition when they have achieved bronze, silver, and/or gold levels.

Improvements continue to be made at the Executive Mansion in Springfield. All of the interior lighting has been replaced with LED lighting by Polybrite-Borealis. Governor Quinn has also previously installed solar panels, rain barrels, and most recently a community vegetable garden which have made the Executive Mansion greener and more sustainable. In May of 2011 Coulomb Technologies installed a residential ChargePoint® charging station for electric vehicles. The installation of the ChargePoint® station marks **the first time a Governor of any state in the US has installed a networked residential charging station for electric vehicles**. The State of Illinois will use the charging station to fuel new electric vehicles and will be used by government staff.

Agencies continued to respond effectively to Executive Order Number 10 (2010) requiring additional spending reductions in every category. In their reports agencies also cited Executive Order Number 11 (2009) requiring them to adopt various green operational practices and encouraging other governmental entities to follow suit and take advantage of State contracts. This year's emphasis on energy efficiency and alternative transportation choices is reflected in Central Management Services' commitment to implementing cost-saving reductions across other agencies. Green construction and retrofits were accomplished by Governor Quinn's \$31B capital bill (signed in July 2009) as well as ARRA funding.

II. Reporting Agencies

The following agencies completed at least one section of the Green Governments Coordinating Council sustainability planning and reporting requirements for Fiscal Year 2012.

Council Member agencies are listed in ***bold italics***.

CONSTITUTIONAL OFFICES

Office of the Auditor General

Office of the Comptroller

Office of the Governor

Office of the Lt. Governor

STATE AGENCIES

Arts Council

Department on Aging

Department of Agriculture

Department of Central Management Services

Department of Commerce and Economic Opportunity

Department of Corrections

Department of Employment Security

Department of Financial and Professional Regulation

Department of Healthcare and Family Services

Department of Human Services

Department of Natural Resources

Department of Revenue

Department of Transportation

Emergency Management Agency

Environmental Protection Agency

Governor's Office of Management and Budget

Historic Preservation Agency

Office of the State Appellate Defender

Office of the State Fire Marshal

Secretary of State

State Board of Elections

State Police

State Toll Highway Authority

State Universities Civil Service System

BOARDS AND COMMISSIONS

Board of Higher Education

Capital Development Board

Civil Service Commission

Commerce Commission

Criminal Justice Information Authority

Deaf and Hard of Hearing Commission

Guardianship and Advocacy Commission

Law Enforcement Training and Standards Board

Pollution Control Board

Prisoner Review Board

Property Tax Appeal Board

Racing Board

Southern Illinois Adult Transition Center

State Board of Education

EDUCATIONAL INSTITUTIONS

Illinois State University

Northern Illinois University

Southern Illinois University Edwardsville

University of Illinois at Chicago, Springfield and Urbana-Champaign

III. Agency Accomplishments

A. Office Practices

The Green Governments Coordinating Council commends all agencies for the impressive progress they have made this year to further sustainable practices in their offices. Every agency that reported showed significant progress in promoting efficiency in the office and reducing energy use, imaging devices and paper consumption. Reduced paper consumption is particularly notable this year, with significant savings reported and projected from several agencies.

Promoting Sustainability at the Office

Getting information to employees

Monthly sustainability newsletters are distributed via email to all **Department of Agriculture** employees, offering education and encouraging sustainability at work and home. **The Law Enforcement Training and Standards Board** also promotes office sustainability, placing posters throughout their office encouraging employees to recycle. All employees recycle at the **Governor's Office of Management and Budget (GOMB)**. The agency has a Sustainability Commitment and Practices document that is included in their new employee packet, and does annual training that includes sustainability information.

The CMS Bureau of Communication and Computer Services (BCCS) designed an employee portal for internal use that includes information on health and wellness, professional training, personnel and benefit information, and other BCCS communications. This tool eliminates some of the need for information to be sent to large distribution lists. With staff in numerous locations, the announcements that previously appeared on digital signage at only two buildings are now accessible from any desktop. BCCS also utilizes Share Point, a collaborative workflow tool that replaces the need for so much paper, time, travel and storage space as it enables staff to collaborate electronically on a common project and share associated documents.

The Office of the State Fire Marshal distributes almost all documents electronically and requires electronic signatures to reduce the need for printing. All agency employees get updates on recycling efforts and green initiatives. Sustainability education continues to be promoted on several agencies' Intranets including the "Green Stuff" link at the **Office of the Auditor General** and a Green Living Tips Guide at the **Illinois Environmental Protection Agency (IEPA)**.

The Department of Revenue (DOR) has set a goal to develop a Sustainability Policy available on the department's Intranet and in the orientation material for all new employees. They also plan to continue the supportive relationship between the Sustainability Committee and the Revenue Employees Club to help spread the sustainability message to employees and fund sustainability initiatives.

Getting employees involved

Illinois State University established a Green Office Certification program. This program provides a benchmark for departments to determine which of their practices are sustainable, and what they can do to be even more efficient and effective in using their resources. The University also coordinates with several student groups to educate the student body on energy efficiency, local foods, and other sustainability principles.

The Department of Transportation (IDOT) utilized the *Lt. Governor's Used Cell Phone Collection Initiative*: collected 68 cell phones, 76 chargers, 14 cell phone holders, 14 cell phone batteries, 7 ear buds, and 3 charging bases. Collected phones will be donated to Verizon's HopeLine Program. Phones are refurbished and sold, with proceeds going to support local domestic violence shelters and programs. The program also provides domestic violence agencies with wireless phones and airtime to be used by domestic violence victims.

The Property Tax Appeal Board utilizes scanning in lieu of faxing whenever possible and has implemented electronic signatures for time-away-from-work slips and purchase order requests. These efforts have reduced printing and paper consumption. The PTAB re-uses office supplies where practical and power-saving features are utilized on copiers, printers and computers.

The Senate Sustainability Committee at **The University of Illinois Springfield** has hosted many "brown bag" sessions throughout the year to educate the campus of ongoing campus initiatives in recycling, utility conservation and construction. The campus has also hosted outside speakers who address conservation and environmental efforts. All incoming freshman receive an orientation presentation by faculty and staff specifically educating and informing students of sustainable activities that UIS supports. Email announcements, a recycling web page, newsletter (*UIS Weekly*), and the student newspaper (*UIS Journal*) are all used to promote recycling, source reduction and sustainability.

At the **Lt. Governor's Office**, they encourage everyone to keep and use washable dishware in the office and use sponges and cloth towels instead of paper products. They are also considering tags on email signatures that read: "Thank you for considering the environmental impact of printing e-mails". The **Department of Financial and Professional Regulation** encourages their employees to turn off lights, fans, radios etc., when not in use. They reuse supplies like paper clips, and binders, and return unused supplies to redistribution.

At the **Department on Aging**, members of various committees are encouraged to review meeting agendas and handouts electronically and print documents only when necessary. **The Civil Service Commission's** agency policy is to turn off lights and computers in areas when not in use and at the end of the day.

The University of Illinois Chicago hopes to advance the *EcoRep* (office green liaison) program through increased participation and training. This should advance their Green Office Challenge (instituted in 2011) as well, which currently has 15 offices signed up that employ 758 people. They have started on a new Managed Print Services program that will offer printer analysis to all university units that are interested. This program would propose ways for the unit to save on their printing cost by reducing under-used, inefficient printers; suggest workflows that would send print jobs to the most cost-effective printer for that specific job; and

encourage duplex printing over single-sided. U of I Chicago also participates in the Great Stuff Exchange (GSX); a biannual bazaar for unwanted office and school supplies is run by the Office of Sustainability in the Student Centers.

Improving Efficiency/Reducing Energy Consumption

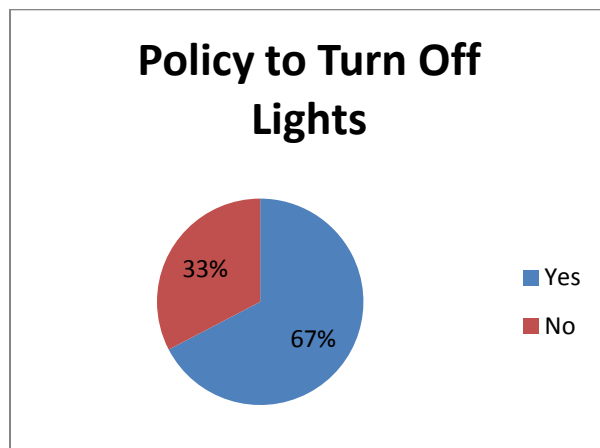


Figure 1: Does your agency have a policy reminding employees to turn off lights when not in use?

At the **Department of Corrections (DOC)** many facilities promote energy savings by shutting off lights and fans when leaving a room (although not all facilities are able due to security risks). Almost all of the facilities that received a computer refresh (including Robinson Correctional Center) recently began using 25 Energy Star rated computers. During FY13 DOC Centralia will replace all separate copiers, printers, and fax machines throughout the facility with combination machines. This change is expected to save approximately \$21,137 per year. Shawnee Correctional Center is piloting virtual training to cut down the amount of days and hours driving to Springfield for in-service training. The facility at Pinckneyville achieved its 2011 goal to expand office supply reuse. In addition, toner cartridges are almost always purchased as re-manufactured devices, where available, and are returned to the vendor for recycling after use.

LOOKING AHEAD

The CMS Bureau of Communication and Computer Services (BCCS) printer consolidations have reduced the number of active large high-speed printers. These printers are generally huge power and paper consumers. CMS is currently reviewing RFP responses for a project to replace several older technology printers with newer technology. Once awarded and implemented, the large printer replacement project will **save the state approximately \$1 million each year for five years**. The agency has purchased software that provides active PC power management and PC “wake-up and shut-down” capabilities that allow for the power management and shut-down of desktop computers when not in use. This feature has been implemented on close to 100% of all CMS desktops and on about 12% of all enterprise devices as of September 1, 2012. CMS anticipates that it will take 1 -2 years to finish the enterprise-wide implementation, and that it should **save over \$1.4 million annually** across the state’s base of installed PC.

Converting to Electronic Communication/Reducing Paper Consumption

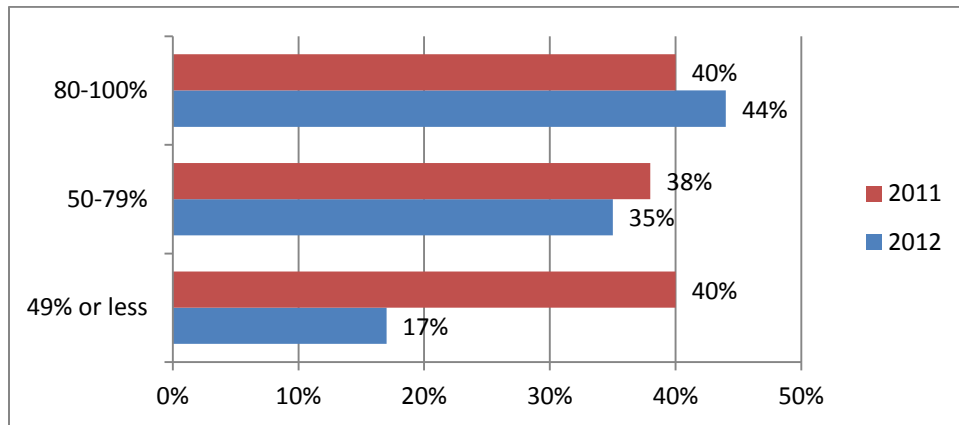


Figure 2: What percentage of forms is received electronically?

In Fiscal Year 2012 the **Department of Revenue** set several new electronic filing and electronic payment records. The agency will receive over 4.5 million electronically-filed IL-1040 returns, which is a 6% increase over 2011. **Over 78% of the returns that the department receives for individual income tax were filed electronically.** Sales tax forms are now mailed to less than 15% of businesses. This represents a 75% reduction compared to a few years ago when forms were mailed to over 90% of the businesses that file sales tax returns. Electronic payments programs continue to grow, with the department receiving over \$31.8 billion through one of the electronic payment channels. **This is over a 28% increase over fiscal year 2011.**

CMS, Office of the State Appellate Defender and the **Guardianship and Advocacy Commission** promoted the Electronic Pay Stub System (EPASS). EPASS allows employees to view their current and past pay stubs electronically from an Internet-enabled computer. **The CMS Bureau of Communication and Computer Services (BCCS)** has rolled EPASS out to 30+ state agencies, comprising over 34,000 employees, which represents approximately two-thirds of the state employee workforce. At CMS, the EPASS effort will result in a projected total annual savings of \$1.5M in paper, printing, envelopes, postage, and storage costs. BCCS will continue to roll EPASS out to other agencies.

BCCS designed and developed an Electronic Timekeeping application, called e-Time, that eliminates the need for paper timesheets, leave requests and overtime requests. As of July 2012, e-Time has been deployed to all CMS employees and rollout to other agencies is underway. E-Time is a web-based front end to the Centralized Time and Attendance System (CTAS), the CMS statewide timekeeping application. An annual savings of approximately \$550,000 in staff time as well as paper, printer and storage costs is projected to result from BCCS' rollout of e-Time in 2012. This use of electronic report viewing and distribution not only reduces printing costs, it also reduces transportation and postage costs.

The Board of Higher Education utilizes an electronic/online Academic Program Approval process that allows institutions seeking operating and degree-granting authority the ability to apply via the IBHE website. In FY2012, the IBHE received 315 Notices of Intent and 169 full applications from institutions seeking new program approval and/or the authority to operate and grant degrees. 202 program change requests - for

changes to approved programs - were also handled electronically. This system has reduced the use of paper, as well as mailing materials and postage. In addition, existing paper documents are being scanned and converted to laser fiche which allows for electronic distribution of materials. In FY2012, the IBHE assumed administrative responsibility for more than 300 Private Business & Vocational Schools and is taking additional steps to efficiently use existing office space by archiving old grant materials, paper files and documents, recycling outdated paper files and materials, and scanning various items into an electronic format.

The CMS Division of Vehicles is also looking to move to a Web-Based Fleet System. This will allow agencies the ability to run reports on their fleet status and pull up their invoices for repairs, thus removing the demand for printed invoices. The **Law Enforcement Training and Standards Board** continues to place documents online and encourages agencies to utilize electronic format and filing software. **The Commerce Commission** has reduced its paper consumption by \$585,000 (or 21%) since 2008.

All printers in **The Office of the State Fire Marshal** are set to black and white and double-sided printing. At the **Illinois Arts Council**, the agency continues to distribute documents electronically, print double-sided, and turn off computers when not in use. The agency has saved money in postage by sending all IAC information electronically. Most grant applications at the agency have been transitioned into eGrants.

CMS Bureau of Benefits moved to a new building and has begun the process of freeing up more space through paper reduction and elimination. At the close of FY12, all of the old awards files have been scanned into the repository and the Bureau is now scanning all closed files.

All publications are now available online at the **Illinois Racing Board**. Most inter-office documents are scanned and emailed rather than being mailed. Only paper with a minimum 30% recycled content was ordered in the past fiscal year. **The Illinois Comptroller's Office** has expanded the use of electronic funds transfers (EFTs) to decrease the production of paper warrants and use of envelopes. Department newsletters and publications are now available online at **The Secretary of State**.

At the **Office of the State Appellate Defender**, purchase orders, travel requests and HR agency forms are submitted electronically. The 2nd and 4th District Appellate Courts, as well as the Illinois Supreme Court, have implemented the efilings of documents. 100% of the **Illinois Department of Transportation's** forms are available electronically (a total of about 1,800 business forms) and 100% of IDOT manuals are available electronically. This represents a total of about 200 manuals.

LOOKING AHEAD

IDOT is currently working with the Department of Central Management Services (**CMS**) to develop the Electronic Consultant Services System & Electronic Bidding System for the department's procurement processes. Each system is expected to significantly reduce paper usage and paper storage requirements at IDOT. Together, the systems also will help save on postage and energy costs involved in the Statement of Experience and Financial Condition (SEFC) submittal for about 1,350 firms. Effectiveness of the SEFC and bid process will be monitored and improved to reduce errors and data entry.

The Department on Aging and the **Civil Service Commission** continue to distribute documents electronically if possible. The CSC uses the reverse side of junk mail and faxes for internal print jobs. Annual Reports, Agendas and Minutes are posted on their website as well as at the Illinois State Library. Requests under the Freedom of Information Act are made available electronically if possible, and parties in appeals are allowed to make selected filings electronically with preapproval.

The Office of the Auditor General experienced a significant reduction in the use of paper. For example, they expect hardcopies of audit work papers to be reduced by over 80% on an average audit. They have also continued to provide and promote compressed work time, flex-time schedules, and work-at-home options to reduce transportation fuel consumption, as well as purchased multiple scanners to reduce the number of copies needed. RFP documents and audit guides are provided in electronic form, which achieved a significant reduction in paper and copying.

The Capital Development Board's FY12 goal to reduce paper consumption by an additional 5% was supported by upgrading to Microsoft Office 2010 from the 2003 version. One of the features of this software is the font default setting which uses less ink when it is printed. CDB's paper usage has declined by approximately 25% during the last three years.

The **IEPA** converted to electronic timesheets and absence slips during FY11 - FY12. These two projects resulted in the following annual savings in paper use:

- For timesheets: 28,800 sheets of buff carbonless ledger, 28,800 sheets of canary carbon front and back, and 28,800 sheets of green carbon front.
- For absence slips: 100,000 sheets of 2-part carbonless paper.

IEPA has also created product reuse/exchange areas in several agency departments and offices.

As a part of the **Department of Revenue's** continuing efforts to reduce paper usage, the agency eliminated their weekly update mailings and reduced the annual booklet size by eliminating the General Instruction, Reg. 16, 941 and labels. These changes resulted in a 70% paper reduction and \$72,000 savings in printing and postage costs.

LOOKING AHEAD

Capital Development Board

A new data storage system will allow CDB to send email directly to Central Files. They hope to have this feature set up in FY13. CDB also plans to have two additional reviewers equipped and providing electronic document reviews, expand the use of on-line plan rooms to distribute plans and specifications, promote the use of on-line forms and electronic submittals including certified payroll to designers and contractors, remind staff to use duplex settings on printers and photocopiers, and begin a quarterly email with green office tips and suggestions.

Department of Revenue

Withholding Income Tax (WIT) Booklets: In FY13, the department plans to eliminate all outside printing of WIT Coupon booklets and mail notices via internal operations only as required. These changes will result in an estimated 42% paper reduction and are estimated to save the Department approximately \$50,000 in printing and postage costs.

1099G Postcards: Individuals were provided with the opportunity to opt out of receiving the paper 1099G in FY13. Providing this option is estimated to reduce the required number of printed cards by 75%, saving approximately \$20,000 in printing costs and \$225,000 in postage.

Electronic Internal Ordering and File Storage System: The Department continues with plans to develop an electronic internal ordering system to replace the current paper request and approval process. If successfully completed in FY13, the system will eliminate the current four part purchase request form.

Green IT/Reducing Imaging Devices

In January of FY12, the **Illinois Department of Revenue** began working with the **CMS** print management staff to assess the printer, copier, scanning, and fax devices used throughout the agency in order to migrate to a green multifunctional environment. This was a multi-divisional initiative coordinated by the Operational and Specialized Services (OSS) division. To date, the department has identified the replacement of 82 printing devices with 52 multi-functional devices. These procurements will be initiated in FY13 and the assessments of the remaining offices within the DOR will conclude later in FY13, which will reflect even greater cost savings.

The IT@Illinois initiative at **The University of Illinois Urbana Champaign** installed a new unified communications system that combines email, calendaring and telephone services. Another component of this initiative is the virtualization of servers, replacing physical servers. This reduces electricity use to run the physical servers, and to cool the space for servers. **The State Board of Education** continued to replace inefficient/outdated server equipment with new generation energy efficient models. The agency also pursued virtualization of multiple server banks into multi-function virtual server units that combine the functions of several servers into one more efficient unit.

The **CMS Bureau of Communication and Computer Services (BCCS)** uses VMWare - server virtualization technology. Since September 2011, an additional 90 servers have been virtualized. This consists of 11 servers at the Central Computer Facility, and 79 servers at 401 S. Clinton in Chicago. Currently, there are a total of 1521 virtual servers in the virtual environment. The virtualization project, as well as agency consolidations, has also resulted in more efficient operations at a reduced cost. Server uptime has increased and server/storage provisioning times have decreased. Virtualization technology has enabled the agency to reduce server power consumption by 77%.

Across all state agencies and offices statewide, the print/fax/copier/scan equipment reduction program at **CMS** continues to move forward. The print reduction is now an estimated \$5,259,522.96 in savings since its inception in January 2011. The savings from the printer reduction program are calculated through the number

of toner cartridges recycled, and electricity and maintenance labor saved. Telecom savings for the **Department of Human Services** totaled \$71,535 and included disconnection of 132 cellular lines and 92 aircards.

Working with CMS to implement the imaging device reduction initiative, **The Department of Commerce and Economic Opportunity** was able to eliminate over 280 individual printers, faxes, copiers, and scanners from use, consolidating to fewer than 90 networked, multi-function devices. Multifunction machines were purchased for two of the **Capital Development Board's** satellite offices to replace several pieces of older office equipment. CDB also plans to surplus an old Docutech copier and will purchase a smaller more efficient machine.

The **Illinois Criminal Justice Information Authority** sent all old printers/copiers/digital scanners that required separate maintenance/toner contracts to Surplus and converted to all Xerox multi-function machines (via CMS master contract), thereby achieving significant cost savings in machine operations, maintenance and toner costs. **The Department of Natural Resources** will be reducing the number of imaging devices used by 50%. IDNR bought over 1,000 fewer reams of paper this fiscal year compared to last.

The Department of Healthcare and Family Services achieved their 2011 goal of reducing imaging devices and promoting employee training. In FY12 the agency developed and implemented a "Green IT: Reducing Use of Imaging Devices to Save Trees, Paper, Energy and Operating Costs" plan. To fulfill this objective in FY13, the agency will perform equipment assessments and data analysis. Specifically, they believe by migrating to multi-functional imaging devices, they can reduce printers by 50%, single-feature photocopiers by 100%, and standalone faxes by 50%.

CAUGHT GREEN HANDED: OFFICE PRACTICES

Will Walker, CMS

Will Walker initiated a paperless pilot project at the CMS Division of Vehicles (DOV). This project helped DOV evaluate business processes and identify opportunities to eliminate paper consumption. Due to this project, DOV was able to lower the paper consumption significantly. Will was also instrumental in implementing a fleet fuel efficiency project funded by obtaining an ARRA grant through DCEO. This project included the purchase of E-85, hybrid and electric vehicles for the state fleet, as well as developing contracts for the purchase of EV charging stations. The Illinois state fleet now includes 15 all-electric Mitsubishi iMiEVs.

Joel Johnson and Chad Kruse, IEPA

On their own initiative, Joel and Chad created an office-wide program to collect and recycle alkaline batteries at the IEPA Headquarters Building in Springfield. They placed recycling containers at the building entrances with signage to encourage employees to drop off spent batteries generated at home and work. When the containers are full, Chad delivers the batteries to a local business, Bunn-O-Matic Corporation, which arranges

for the batteries to be processed and shipped to an end market. In FY12, Joel and Chad recycled over 18 gallons of alkaline batteries.

David Miller, University of Illinois

As Associate Hospital Director, David Miller formed a Hospital Green Team in 2008 with members from all administrative units in the hospital. He has served as co-chair of the Waste and Recycling Subcommittee of the Chancellor's Committee on Sustainability and Energy. He also partnered with the Office of Sustainability to write a grant and received funding to implement a full recycling program for bottles, cans, glass, and paper in the hospital. That installation resulted in an 8% increase in recycling for that building. The Green Team has an annual Earth Day Green Fair that collects batteries, print cartridges, and cell phones and has launched numerous other initiatives in the hospital. David is currently working on a number of energy efficiency and waste reduction initiatives, including lighting upgrades.

B. Recycling

The sheer amount of recycled material reported this year has been astounding. From office materials, waste oil, vegetable oil, and comingled recyclables to electronics, furniture and cardboard, agencies in Illinois have done an amazing job. The GGCC is thoroughly impressed with the improvements since the last fiscal year and can't wait to see what Illinois achieves next in its recycling efforts.

Office Material Recycling

The staff at the **Southern Illinois Adult Transition Center** has been outstanding with the recycling program. All have participated in helping to reduce the amount of white and printed paper, recycling plastic bottles and caps, and with the help of the residents they have reduced the amount of solid waste returning to the landfill. The agency makes several trips to the local recycling center every week with plastic, cardboard, metal and paper products.

The Office of the State Fire Marshal has a comprehensive recycling program, which includes a large three tier station in the break room consisting of plastic, aluminum and paper recycling. 95% of all employees have a personal recycling bin at their desks, as well as cardboard recycling and a re-use receptacle in the back of the agency. Several facilities at the **Department of Corrections** set up paper and plastic recycling throughout the grounds and shred and recycle paper. Staff also re-uses their garbage bags as often as possible. DOC Robinson Correctional Center established a "Go Green Committee" which has suggested and implemented recycling projects such as the white paper and plastic bottles. The facility cardboard and metal can recycling has removed over 80 tons of recyclable products from the facility's waste stream and returned over \$8,000 to the State's I-Cycle Program. In FY12 the facility recycled 52 tons of cardboard, 12 tons of metal cans and 5 tons of plastic. Shawnee CC made use of a digital bulletin board, nearly eliminating their use of paper, which is expected to show a cost savings of \$77,000. They also implemented a recycling program in FY12, recycling

cardboard, paper, plastics, electronics, metal cans, ink/toner cartridges, and wooden pallets. The estimated savings on the reduced trash production is \$29,000. The amount of profit from the sale of the recycled materials in FY12 was \$5,162.12. DOC Vienna is working with Shawnee CC hoping in the near future to recycle shredded paper.

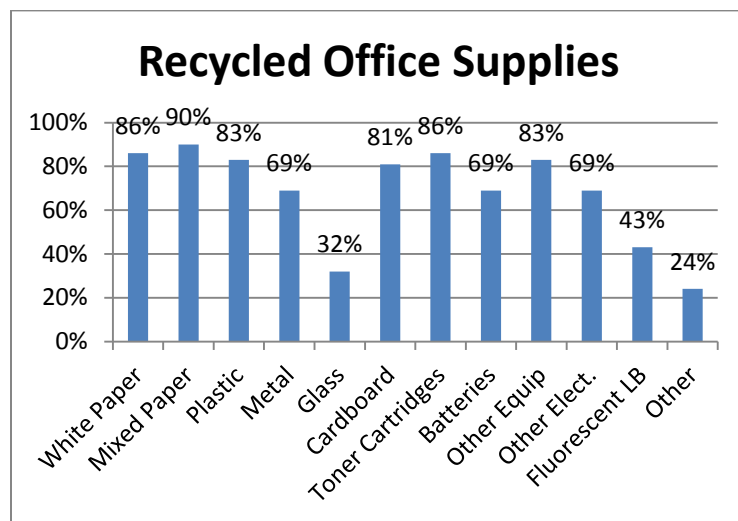
The website that is operated through the Task Force for a Sustainable Campus Environment at **Northern Illinois University** is up and running and includes information available to visitors to review procedures for recycling many types of materials, including general recycling, battery, fluorescent light bulb, and electronics recycling through the sponsored annual e-waste drive. The Administrative Professionals Advisory Council maintains searchable lists through departments to trade items before buying new supplies.

The Department of Revenue recycled over 37 tons of cardboard, 835 pounds of cans (aluminum and bottles combined), and over 200 pounds of batteries in FY12. Additionally, employees turned in personal electronics and corrugated cardboard under a new recycling initiative.

In an effort to increase employee participation in recycling, **The Department of Revenue's** Sustainability Committee launched the R-365 initiative. The idea was to set up a program to establish a permanent (365/days per year) location for employees to recycle their personal home electronics and corrugated cardboard. In the 8 months of FY-12 (November-June) since the program started, they've facilitated the recycling of over 8,500 pounds of electronics and over 1,000 pounds of cardboard. In the future they would like to expand the program to include plastics and Styrofoam once a vendor is found.

One of the state facilities at **Guardianship and Advocacy Commission** has recycling as part of a work training program that helps their wards. Cardboard, plastic, shredded paper and cans are recycled daily. The Egyptian Regional Office also had a shredding company visit several times in the last four years, disposing of tons of closed OSG files following their policy and procedure on shredding closed files.

Figure 3: Notable increases this year for the amount of office supplies recycled are metal, glass, batteries, electronic equipment, and fluorescent light bulbs.



In the Spotlight: DCEO and Sheltered workshops

The Illinois Department of Commerce and Economic Opportunity's Recycling Division has awarded a \$100,000 grant to the H Group Vocational Division, a sheltered workshop located in Franklin County. The H Group is a not-for-profit organization that has provided comprehensive social and behavioral health services since 1969. The H Group has several service divisions. The division that manages the current recycling services serves more than 200 individuals with disabilities.

The H Group will initiate a recyclable material commercial collection service based out of West Frankfort in Franklin County. In addition to commercial establishments, the H Group has over 14 state facilities in three counties targeted for the collection of recyclables. Grant funds will assist with the purchase of capital equipment including a box truck, shredding equipment, lift gates, collection containers, and a sorting conveyor. Over 1400 tons of material is expected to be collected and diverted from Illinois landfills in the first 12 months. This project also will allow for the shredding of sensitive materials and create eight positions of employment with six to be filled by people with developmental and/or physical disabilities. In addition, another 20 people who are client employees of the H Group will be assured of continued employment to provide sorting and baling of the materials collected for final shipments to end market. The materials will then be re-manufactured into new consumer goods. Franklin County has the sixth highest unemployment rate in the Illinois at 11.6 percent.

Other recycled materials

IDOA continues to increase sustainability activities at the Illinois State Fair. The department is also increasing recycling efforts at non fair events; i.e. the Illinois Products Farmers Market located on the Fairgrounds has recycled over 700 pounds of glass since May 2012. **IDOT** used 1.2 million tons of recycled material and 3,324 tons of recycled asphalt shingle in road construction in FY2012. The **Guardianship and Advocacy Commission** is working on getting approval for a substantial pickup of broken furniture, as well as old broken electronic equipment such as printers, faxes and old photocopiers and functional surplus electronics.

As of the close of FY12, the **Prisoner Review Board** sent 750 boxes containing 31,305 files to *UCP's Gone for Good* to be prepped for microfilming; another 403 boxes containing 16,459 files are currently staged at the Armory prior to being sent to *Gone for Good*.

The Illinois Comptroller's Office also participates in the *Gone for Good* Document Destruction Program. This year they contributed 71,754 pounds of material to be processed. The financial value of this processing equals a cost savings of \$185,113.86.

In FY12, **CDB** registered with TerraCycle, an international company that creates national recycling programs for previously non-recyclable or hard-to-recycle waste. TerraCycle converts the collected waste from the programs (called the "Brigades") into a wide variety of products and materials. Each brigade gathers and recycles an individual type of material. CDB is in an active brigade for Scotch tape dispensers and cores and on the waiting list for the writing instrument and candy wrapper brigades.

In the Spotlight: Pepsi Dream Machine

In January 2012, Governor Pat Quinn joined representatives from PepsiCo, Waste Management and the Entrepreneurship Bootcamp for Veterans with Disabilities (EBV) at the Thompson Center to commemorate the launch of The Dream Machine Recycling Program. The Dream Machine recycling initiative introduces recycling kiosks and bins at popular public locations across North America. They are computerized receptacles that include a personal reward system, powered by Greenopolis, which allows consumers to earn points for every bottle or can they recycle in the kiosk. Those points can then be redeemed for local discounts on entertainment, dining and travel by visiting www.greenopolis.com. In addition, the more bottles and cans people recycle in Dream Machines, the more support PepsiCo will provide to the EBV, a national program offering free, experiential training in entrepreneurship and small business management to post-9/11 U.S. veterans with disabilities. With approximately 4,000 Dream Machines located in 40 states to date, the program aims to create strategic partnerships to help increase the U.S. beverage container recycling rate to 50 percent by 2018.

At the close of FY12, the kiosk in the Thompson Center had accumulated 647.25 pounds of recycled PET bottles and 345 pounds of recycled aluminum.

Several facilities at the **DOC** are collecting food oil and sending it to Menard CC to be recycled and manufactured into biodiesel. In 2007 Menard Correctional Center's Industries program began producing biodiesel fuel from waste vegetable oil recycled from DOC facilities around the state. That program has now come full circle with a DOC transfer bus equipped to run on the bio-diesel fuel (pictured right). The Biofuel Processor was featured at this year's Illinois State Fair (pictured below). Used motor oil and tires are being sent to CMS to buy recycled. Reusable plastic meal trays have been purchased to reduce the use of Styrofoam trays, outdated paper files are taken to Springfield to be shredded and recycled, electronics are sent to be recycled by a vendor in Flora and CMS warehouse, and brass shell casings



are sent to Training Academy to be recycled.



In January 2012, Dwight Correctional Center expanded recycling efforts to include cardboard, plastics, and steel cans from dietary. The baler (featured in this year's State Fair – pictured left) allows the female offenders to compress the cardboard into manageable sized bales that are loaded onto a pallet; shrink-wrapped; and sent to Illinois Correctional Industries (ICI) at Menard Correctional Center's recycling center via truck transport that is already at the facility to deliver goods. The baler requires no fossil fuel to run and the trucks are not making special runs to pick up the pallets, which reduces the carbon foot print

being left by Dwight Correctional Center. In addition to the baler, the facility has designed and implemented a manual can crusher to facilitate in the tin can recycling.

In spring of 2012, **U of I Chicago** participated in Recyclemania and moved up from 9th to 8th place ranking in the Gorilla category for recycling 900,000 pounds of material during the competition. They also went from 107th place to 61st in the Grand Champion category. They are expanding their full recycling program to the College of Medicine and Campus Housing and implementing food scrap collection in two student centers, partially funded by grants from DCEO.

Facilities Management at **ISU** announced the campus-wide implementation of Single Stream Recycling, a system in which sorting is not required for paper materials, plastic, glass, and cans. According to Assistant Superintendent of Recycling Andrew Bennett, "Single Stream Recycling will be more convenient for our campus community. This type of recycling can handle a commingled mixture of recyclables, with materials being separated for recycling at Midwest Fiber in Normal".

Recycled Materials Generated (in tons):

Other agencies that did an outstanding job recycling include the **Auditor General, DOC NIU, Office of the Comptroller, and U of I Chicago**. Their achievements as compared to 2011 are detailed in the graph to the right.

Agency	2011	2012
Auditor General	1	13.4
Comptroller	9.6	35.88
DOC	1,636	123,572
NIU	700	950
U of I Chicago	2,981	3,511

The Illinois State Fair (sponsored by the **DOA**) had some exciting events and remarkable achievements in 2012. Recycling at the State Fair included: 3,800 pounds aluminum, 15,276 pounds cooking oil (up from 9,400 in 2011), 2,400 PET units and 17.16 tons assorted recycling (bottles, cardboard, paper) up from 12 tons in 2011. The State Fair also reinstituted the *Green Vendor Challenge* this year. State Fair vendors were asked to complete the following items at the 2012 Illinois State Fair to earn a "green" ribbon to display at their booths: source local food, recycle/eliminate waste, refrain from use of Styrofoam, use disposables (plates, napkins,

utensils) that contain recycled content or use a bio-based or compostable option, recapture used vegetable oil and use green cleaning supplies. Six vendors received the award this year.

CMS Recycling Program/I-Cycle

The I-CYCLE program is a self-funded recycling program administered by the Property Management division of CMS to recover and sell recyclable materials from state agencies and encourage the market development of recovered materials.

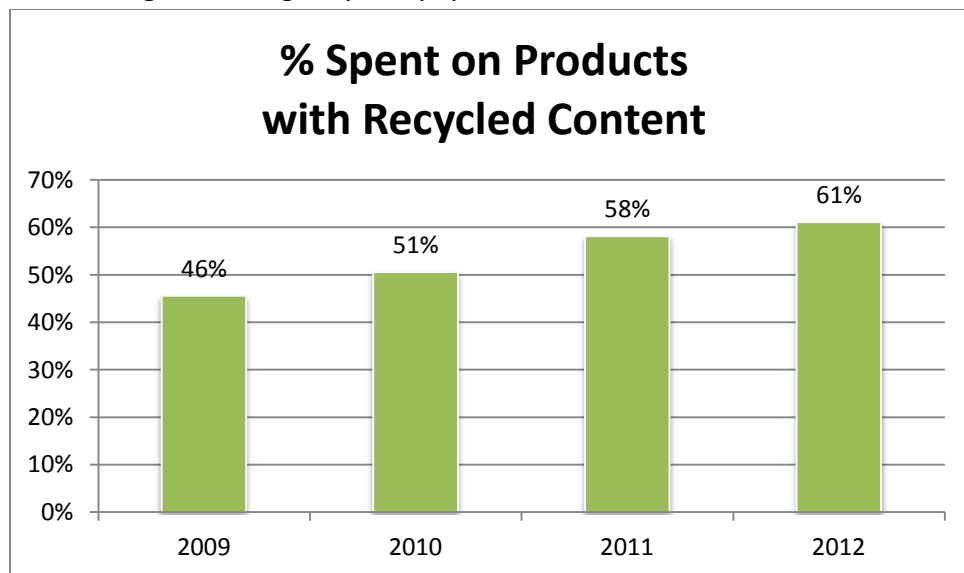
TOTAL SAVINGS to State of Illinois at the close of FY12: \$4,873,703.50

- 6,184,849 pounds of paper recycled
- 580,190 pounds of OCC (card board) recycled
- 3,188 Pounds of plastic recycled
- 6,845 pounds of aluminum recycled
- 88,790 pounds of food cans from the prisons
- 88,550 pounds of assorted comingled items recycled

Telecom Savings: This program began in August of 2011 and the grand total of savings is now estimated to be \$482,057.02 for FY12.

Recycled Paper and Paper Products Summary:

The following bar graph summarizes the recycled paper and paper products procured by CMS for state agencies during the past four fiscal years. The graph shows that more money is consistently being spent on products containing recycled content than on products without recycled content. Besides the office paper and envelopes purchased by the CMS Printing Unit, the **Bureau of Strategic Sourcing (BOSS)** purchases paper products such as toilet tissue, napkins, and paper towels for state agencies. In addition, FY12 outside printing contracts bid by CMS Printing Unit using recycled paper totaled \$344,268.00.



The following tables indicate how many pounds of various products were recycled by CMS in FY12, as well as the revenue generated through recycling:

FY12 Totals (in pounds)	Paper	Cardboard	Aluminum	Plastic	Comingled	Food cans
Vendors	5,988,105	570,929	1,714	915	50,790	88,670
State Use Vendors	194,214	5,176	131	1,120		
State Fairs	2,530	4,085	5,000	1,153	37,760	120
Revenue generated from scrap metal (includes food cans)					\$ 732,225.45	
Revenue generated from traditional recyclables					\$ 110,482.00	
Revenue generated by Industries through recycling					\$ 142,156.97	
Total revenue generated from recycling					\$ 984,864.42	

Recycling Statistics	
Conversions based on per ton of paper recycled	
52,571	Trees Saved
21,646,972	Water Conserved
185,545	Unreleased Pollutants (pounds)
9,277	Cubic Yards not Landfilled
1,175,121	Gallons of Oil Saved
12,685,125	KWh Electricity Saved
123.7	Pounds of Paper Recycled per State Employee

CAUGHT GREEN HANDED: RECYCLING

**Jon Jones, Pinckneyville Correction Center and
Jace Phillips, Robinson Correction Center**

Jon Jones serves as Chief Engineer at Pinckneyville Correctional Center and acts as the Facility Sustainability Coordinator. Jace Phillips was placed in charge of the facility's "Go Green Committee". Jon and Jace have been active with environmental projects for several years, leading in the implementation of their Correctional Center's respective recycling programs. They coordinate and organize the storage and shipments of recyclable products and serve as an inspiration to other staff members with their drive to move toward greener facilities.



Mike Cavanaugh, CMS I-Cycle

Since becoming manager of the I-Cycle Program, Mike has been vigorously developing new initiatives in pursuit of zero waste, including installing and procuring balers at various agencies and facilities. He has given his support to the Illinois Department of Corrections and the Illinois Printer Reductions Program. Mike is committed to improving the recycling habits of Illinois Government.



David Smith, DCEO

David takes home all of the coffee grounds generated on the 12th floor of the Ridgley Building (DCEO Springfield Office) to add to his compost. The office consumes about a can of coffee per week, and that is about two pounds of dry grounds. Composting 2 pounds per week over the course of a year adds up to diverting a total of over 100 pounds of coffee grounds for the year.



Jay Neposchlan, DOR

Jay set up the R365 program (the program establishes a permanent (365/days per year) location for employees to recycle their personal home electronics and corrugated cardboard). Creating this program entailed getting support from upper management, identifying a company willing to accept the items and receiving permission to "advertise" the program. Jay worked with other employees to get the information posted on the Department's Intranet site so employees would be aware of the program and what they could recycle. He also arranged for signage to be placed in the Willard Ice Building lobby and an additional drop-off receptacle for small items like printers, cell phones and radios. Jay graciously used his own vehicle and gasoline to transport these recyclables to the recycler. This demonstrates an outstanding commitment to the cause. Jay insists on sharing credit with John Reid, who helped him with signage, promoting the program and sometimes assisting with the transportation of these items to the recycler.

C. Purchasing

Agencies are consistently instituting protocols that require environmentally friendly purchasing throughout the State. Buying environmentally friendly computer equipment, software, paper products, electronic accessories, appliances, cleaning supplies and furniture has become common practice. Items with a significant percentage of recycled material were a particularly important conversion, helping to reduce operating costs, save money and energy, and demonstrate a striking commitment to sustainable purchasing.

Purchasing Environmentally-Friendly Computer Equipment/Software

The Purchasing Division at **U of I Urbana Champaign** has included an identification system in iBuy (a web-based procurement system) for products that are recycled and/or green. Since the implementation of the system, most-if not all-invoicing is done electronically, saving a great deal of paper.

The Illinois Arts Council and the **Illinois Racing Board** continue to seek products and equipment that are environmental friendly, recycled and Energy Star certified. Environmentally friendly purchases at **Healthcare and Family Services** include printers, copiers, monitors, air conditioners, and dehumidifiers.

The CMS Bureau of Communication and Computer Services (BCCS) has a PC and laptop master contract that mandates that all equipment be Electronic Product Environmental Assessment Tool (EPEAT) registered. EPEAT is the global registry for greener electronics and EPEAT registered products also meet Energy Star specifications.

Purchasing Environmentally Friendly Products

The Department of Revenue continues to purchase all paper, all envelopes and a large percentage of toner cartridges via green contracts. The department also continues to require that all outside print jobs are printed on recycled paper with soy-based ink. In 2011 the DOR developed an internal printer and fax cartridge tracking system to track and resolve issues related to complaints regarding poor quality recycled cartridges. Through this tracking system the department was able to recommend additional cartridges to be added to the CMS Master recycled cartridge contract. CMS worked with the department and the vendor to successfully make this addition in FY12, allowing the department to switch and make all toner purchases via this contract. However, continued tracking later required the department to stop using recycled portable printer cartridges available through the contract. The department now purchases 100% of their toner cartridges via the recycle cartridge master contract, but all portable ink toner cartridges are currently OEM purchases. The department will continue to evaluate cartridge performance and work to find a solution that is both effective and sustainable.

The procurement code at **U of I Urbana Champaign** allows for several opportunities for sustainable purchasing, including soybean oil-based ink, recycled and recyclable supplies, environmentally preferable supplies, vehicle purchases, and locally grown foods. The Building Services division has been adding new green products and procedures each year since they began using green or EPA-approved products in 2000. In 2009, approximately 20% of the University's cleaning materials and equipment were Green Seal certified. Today, that percentage is more than 50%. In addition, Building Services purchased several ionized water cleaning systems. The use of these systems replaces the use of chemicals for cleaning, reduces operating cost and natural resource use, and improves indoor air quality. Moving forward the Purchasing Division is working to reduce packaging materials by suggesting delivery in durable totes, rather than cardboard boxes.

Where applicable, recycled goods are purchased and utilized by the **Department of Agriculture**. Purchases with environmentally friendly attributes include tables, chairs, stools, office chairs, file cabinets, outdoor benches, microwaves, refrigerators, hangers, coat racks, fans, concrete trash cans, lights, furniture for Kids Korner, paper products, and more. **The Comptroller's Office** replaced old inefficient and ineffective appliances with Energy Star refrigerators and microwaves.

LOOKING AHEAD

Moving forward, University Sourcing at **U of I Chicago (UIC)** has developed specific sustainability language that will be integrated into every RFP. Each respondent will be asked to submit a detailed sustainability plan which addresses recognized areas of effort including: source reduction, recycled content and products, energy and water savings, toxic products and pollution. These plans will be a scored component of the technical evaluation and will require the awarded vendor to provide periodic reports of their sustainability program to the University. UIC has started to incorporate language related to recycled materials - taken from the State certifications - into the pricing section on RFP's to draw vendors' attention and get a specific response to the percentage of recycled materials or packaging associated with their products. University Sourcing has already begun efforts to facilitate a recycled toner program. An expanded effort to identify all green products available within the iBuy e-Procurement system is in process at this time.

The Capital Development Board purchases approximately 320 boxes (3200 reams) of paper every 15 - 17 months. The last purchase was made in FY11. CDB's paper usage has declined by approximately 25% during the last three years. Prior to FY10 CDB was purchasing approximately 3200 reams every 12 months.

Over the past seven months, the **CMS BCCS** has purchased 388 hand dryers and installed them in 27 office locations throughout the state, with plans to install more in the coming year. **The Illinois State Toll Highway Authority** purchased 55 hand dryers and has started to convert their restrooms to hand dryers rather than paper towels.

The Illinois Emergency Management Agency is currently consolidating its purchasing of office supplies through a central person to control stock. All paper purchased by the **Southern Illinois Adult Transition Center** is Office Depot premium enviroCopy recycled paper. It requires 35 % fewer trees to produce, is 15% more energy efficient, 13% fewer greenhouse gas emissions, 32% less hazardous air pollutants and generates 17% less solid waste and water pollution. Energy efficient light bulbs were donated by staff members and Ameren, and the SILATC purchases only green cleaning products from local businesses.

At **Northern Illinois University**, they have eliminated the use of virgin paper on campus and increased recycled paper usage. Their Document Services department uses 100% recycled paper and Central Stores department only provides recycled paper to requesting departments. NIU redistributes items such as desks, chairs, tables, and electrical equipment internally in most cases. At **The State Board of Education**, the agency continues to procure Energy Star-rated office equipment and/or utilize CMS Surplus when available. Anytime furniture or equipment is needed the Board checks availability of items at CMS surplus prior to purchasing new items.

The **DOC** facility at Pinckneyville purchased an additional \$8700 in reusable trays/lids in FY12 to reduce Styrofoam tray use. Paper, envelopes, napkins, paper bags and multifold paper towels purchased contain recycled materials. All paint purchased is low-emissions and the fluorescent lighting purchased is energy efficient. The **DOC** facility at Dwight has reduced its commodity expenses each fiscal year for the past 5 fiscal years. The DOC Dwight total expenditure by Fiscal Year has decreased by \$286,625 (or 16%) since 2009. Commodity expenses include food, toilet paper, paper towels, Styrofoam trays, Styrofoam cups, plastic

utensils, sanitary napkins, office supplies, towels, sheets, pillow cases, and clothing for offenders and staff. Additionally, toner cartridges are always encouraged to be purchased as re-manufactured devices.

The **Illinois Department of Employment Security** Commodities Section uses CMS master contracts to purchase remanufactured cartridges. FY12 purchases totaled 9,671 toner/fax cartridges at a cost of \$192,140.41. The cost of OEM Cartridges would have been \$498,247.17, **an economic savings of \$306,106.76**. IDES Printing Section uses CMS master contracts to purchase paper and envelopes with 30% recycled materials.

Southern Illinois University Edwardsville purchases environmentally friendly products including energy efficient light bulbs, low VOC paints where applicable, green cleaning products, multi-purpose cleaner, Green Seal floor stripper and window cleaner ,T8 fluorescent lamps , and water-saving urinal and toilet flush valves.

The Law Enforcement Training and Standards Board continues to purchase items with high post-consumer content (minimum 30% post-consumer content). The Board also used refillable pencils and pens.

The Department of Transportation began a conversion to green cleaning supplies as well as use of non-toxic correction fluids, glues and pastes and improved inventory procedures to control supply purchases. Numerous agency facilities are using environmentally friendly cleaners and CMS green master contract items including air conditioners, window calendars, can liners, carpet, envelopes, brown craft facsimile equipment, glass beads, ice removal compound, janitorial chemicals, light duty trucks, liquid corn salt solution concentrate, office supplies, stockless paper foam and plastic, paper products including toilet tissue, video equipment and cameras, warning devices, barricades and warning lights, water coolers and electric wiping rags.

D. Transportation

Notable accomplishments in sustainable transportation include increased teleconferencing, fuel savings, carpooling and ride-sharing, hybrid vehicles, flex fuel vehicles, electric vehicles, alternative/active transportation and increased use of mass transit. Agencies have made great strides in encouraging sustainable practices that reduce the use of conventional fuel and educate staff on the variety of opportunities they have to make environmentally friendly transportation decisions. Car-sharing in particular reduces trips: each car share vehicle is expected to take 15 personal vehicles off the road. Agencies utilized multiple car-sharing and rental services such as Zipcar, Hertz, and Enterprise.

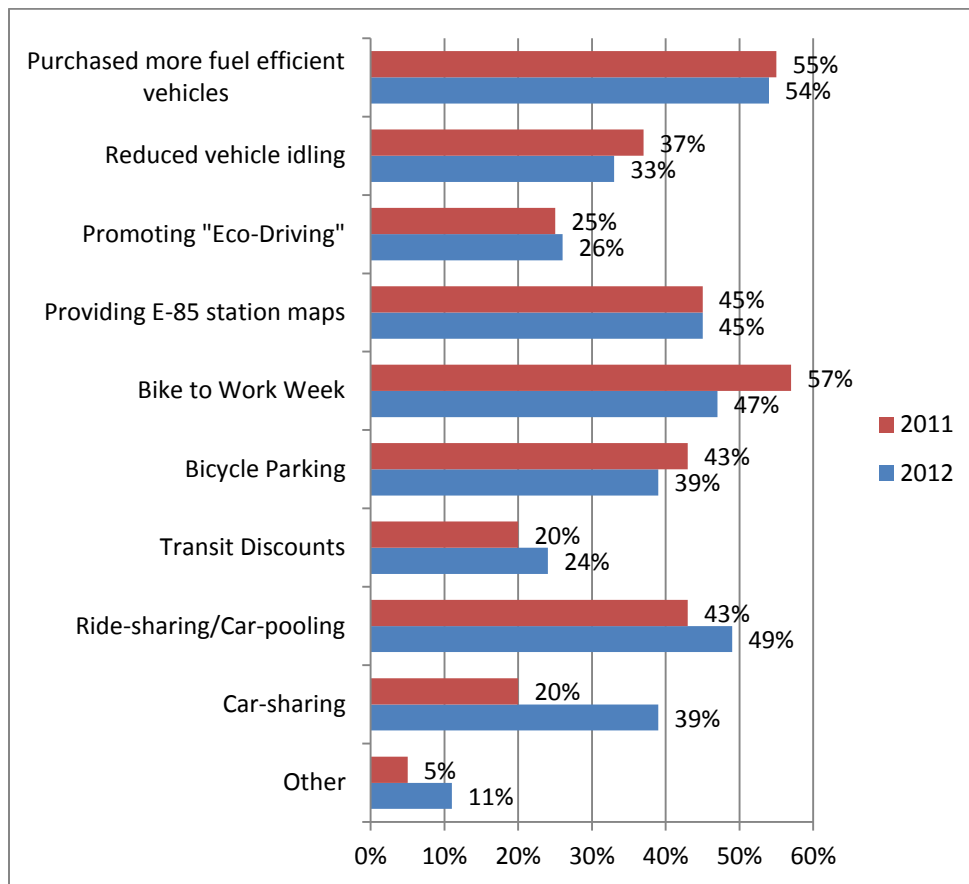


Figure 4: Sustainable Transportation Practices

As **Figure 4** illustrates, agencies either generally maintained or improved sustainable transportation practices in 2012. Notable increases from 2011 include providing more transit discounts, promoting more ride-sharing/carpooling, utilizing more car-sharing services (such as Zipcar) and more than a 100% increase in the 'Other' category, which includes achievements such as employee wellness programs.

Teleconferencing

The use of teleconferencing is increasing at the **DOA, Illinois State Police, Deaf and Hard of Hearing Commission, Comptroller's Office and Civil Service Commission (CSC)**. The CSC uses AT&T conference calls for agency representatives to participate in meetings, for parties in appeals, and for video testimony for hearings.

The State Universities Civil Service System has reduced the number of on-site meetings and continues to encourage staff to use videoconference equipment to replace on-site meetings. **The State Board of Education** logged 945 conference calls and 165 webinars (20,500 people attended webinars with over 255 hours).

CMS-DOV's State Employee Business Transportation Policy guides agency transportation decisions to sustainable, fuel and cost efficient choices by promoting the use of videoconferencing and webinars to reduce travel and coordinating car-sharing webinars to educate employees on optimal use of fuel efficient Zipcar

vehicles. **The Capital Development Board** has increased the number of videoconferencing meetings by sharing other agencies' facilities.

The Department of Revenue purchased a system that will allow web training and web meetings with virtually no travel expense to the State of Illinois. This system will allow headquarters and field personnel to conduct training sessions and meetings, all while complying with Federal and State law to protect the confidentiality of tax information. The system is expected to pay for itself within the first three months of use.

Videoconferencing usage has also increased; however, teleconferencing (using "bridge lines") appears to be the most efficient method for conferencing.

IEMA has increased the use of web-conferencing throughout the agency, saving travel monies and environmental resources. Since the last reporting period, the Radiochemistry section has started continuing education and training via web-conferencing. Agency policy encourages the use of GoToMeetings.com for web conferencing.

Fuel/Energy Savings

Fuel overall is down from 10.2 million gallons in FY11 to 9.4 million gallons in FY12 at the **CMS Division of Vehicles**. Much of the difference is diesel which can be attributed to **IDOT**, who consumed 264,484 less gallons than in 2011. However, it was a mild winter which can impact diesel consumption related to snow plowing, so if it is a snowy winter in FY13 it may increase again. **Figure 5** below illustrates state agencies progress in fuel reduction since 2008.

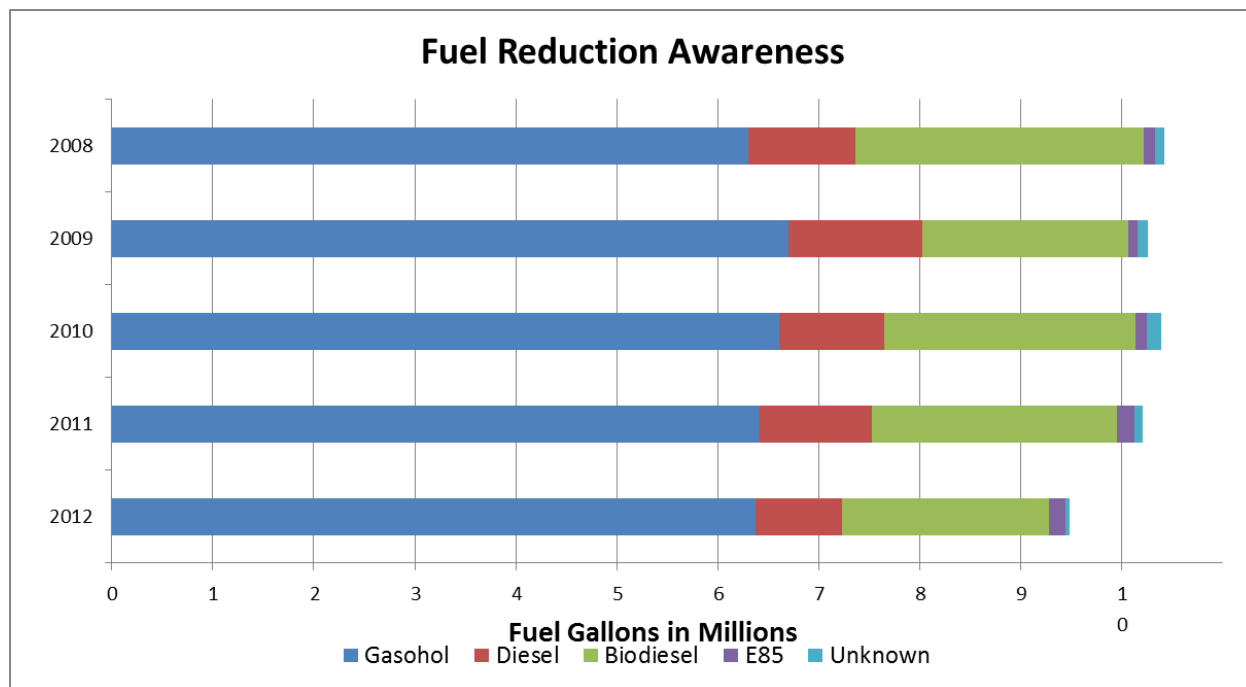


Figure 5: Fuel Reduction since 2008

The Illinois State Police purchased 451 vehicles during FY11 to replace high mileage, older model vehicles. Since 2008, ISP has decreased overall fuel consumption by 17%. **The Commerce Commission** reported 101,752 fewer miles traveled as compared to 2010 data, a 13% decrease.

IDOT's diesel fleet is 100% biodiesel capable. Accomplishments in transportation include the increased utilization of blue logo signs to tell travelers where ethanol-based and other bio fuels are available, improved reflective highway signs (which eliminate the need for electric sign lighting at a savings of up to \$700 per sign), aluminum sign recycling (which is expected to save nearly \$670,000 annually in materials), and replacing incandescent bulbs in traffic lights with LED lighting to save up to \$10,000 annually per intersection in energy.

At **The Illinois Prisoner Review Board**, the agency has a fleet that is entirely ethanol fuel blend E-85 compatible and plans to continue to purchase these types of vehicles. Steps to access inmate files via Share Point will reduce member's need to drive to obtain them. Approximately 80% of **The State Toll Highway Authority's** vehicles can currently operate on alternative fuels and the agency expects the percentage to rise to 90% in 2013. The Tollway's revised Vehicle Policy Manual contains its first ever Fuel Conservation Section that formalizes the fuel conservation efforts into Agency Policy. The agency has installed seven new E-85 locations to fuel their fleet and the contract to add four additional E-85 sites will go out for bid in October 2012 with a completion date of 9/30/13. They expect to consume 120,000 to 150,000 gallons of E-85 annually and are considering the feasibility of providing (selling) E-85 to other state agencies.

In order to maintain **IEMA's** mission readiness with respect to the Illinois Plan for Radiological Accidents (IPRA), large-scale drills are routinely conducted throughout the year. Most drills require substantial travel away from Springfield and all require the use of fuel-inefficient haul vehicles to transport the necessary equipment to fulfill mission requirements. Beginning in 2011, IEMA experimented with creating scenarios based in the Springfield area that would simultaneously allow high-quality training while providing a substantial positive environmental and fiscal impact. The evaluation of the environmental and fiscal impact was impressive: realized fuel savings of \$3100 (900 gallons) per diem and travel associated savings of \$3750 (30 employees @ \$125). Starting in FY13, IEMA will incorporate these scenarios more frequently, increasing the positive environmental impact of their operations while simultaneously maintaining a high degree of readiness. The joint ISP/IEMA Transportation and Escort Program, responsible for the monitoring and escorting spent nuclear fuel, transuranic waste and other highway route-controlled radioactive materials throughout Illinois, continues to be a noteworthy program and continues in this reporting year.

The Department on Aging distributed a list and map of stations in Illinois that sell E-85 fuel to each of the state vehicles driven by department employees. Emails outlining tips for reducing fuel consumption were sent to department drivers, and coordination of department errands provided the opportunity to reduce the number of trips made to other state buildings. The **Capital Development Board** and **Office of the State Fire Marshal** also encourage staff to use E-85 in their vehicles. The CDB has placed E-85 maps in all cars that take flex fuel.

The motor pool vehicle at the **Office of the Auditor General** (flex-fuel vehicles) is being used by employees for ride-sharing for meetings in external audit locations. They have also continued to provide and promote compressed work time, flex-time schedules and telecommuting options to reduce energy consumption.

At **U of I Urbana Champaign**, a new computer system that interfaces with modules inside many vehicles in the service fleet enables Facilities & Services to wirelessly download detailed data about each vehicle's fuel consumption and the amount of time the engine spends idling. Foremen have been asked to work with their crews to reduce the amount of time that service vehicles spend idling whenever possible to help conserve fuel.

Instead of purchasing a maintenance vehicle, **U of I Springfield** went to CMS Surplus Vehicle Department and secured a used vehicle. They recently purchased an electric golf cart that can be used by maintenance trades for short on-campus trips, instead of driving their service vans.

The Department of Natural Resources traveled 7,630,402 vehicle miles this year, a reduction of over 1 million miles compared to last year. The agency would like to acquire more hybrid vehicles from CMS.

Carpooling/Ride-Sharing

CMS launched a sustainable transportation option for state employees, with car-sharing services through Zipcar. Employees in the Chicago metropolitan area and Springfield now have access to Zipcar's electric hybrid and other fuel efficient vehicles to meet state business travel needs. Through Zipcar's Z4G (Zipcar for Government) offering, a number of state agencies will have on-demand access to nearly 500 Zipcar vehicles currently located across the city of Chicago, as well as a new fleet of vehicles in the city of Springfield. See the full press release here:

<http://www.illinois.gov/PressReleases/ShowPressRelease.cfm?SubjectID=1&RecNum=9822>

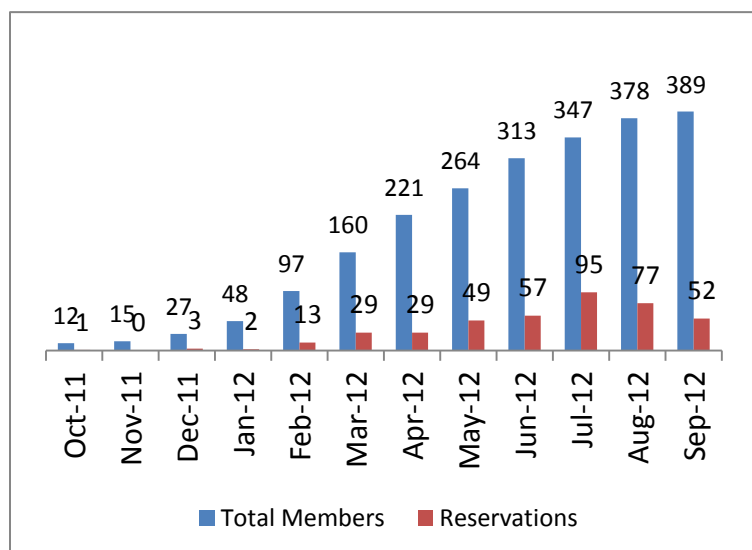


Figure 6: FY12 Zipcar Usage

In their annual status report for the state agency Zipcar program, CMS recounted exciting advances achieved in FY12. **Figure 6** illustrates the progress made both in number of reservations and total members within the participating agencies.

Keys to the improved uptake include: weekly onboarding sessions with agencies (in-person and videoconferencing), direct marketing efforts (flyers, emails, tabling, etc.), vocal, high-level sponsorship and cheerleading, and policy communication and enforcement.

Member growth has greatly improved due to direct engagement and reservations have increased as policy has been implemented. FY12's emphasis was on activation. The next challenge will be utilization, especially in Springfield.

The Capital Development Board promoted carpooling and utilized efficient vehicles through Zipcar or renting when motor pool cars were not available. **U of I Urbana Champaign** has 9 Zipcars, including a Prius hybrid, and over 300 Zipcar members. **The Guardianship and Advocacy Commission** is planning to use Zipcars and Enterprise rental cars in FY13.

The Office of Sustainability at **ISU** has partnered with Hertz to create a car-sharing program to complement alternatives such as biking or public transportation. The program offers a minimal fee to students, faculty and staff to rent the car by the hour or day and they have designated parking spots right in the heart of campus.

U of I Chicago launched an online ride matching program for commuting to campus, called iCarpool. They installed eight electric vehicle charging stations around campus, including two for the use by Zipcar ride-share program. In FY13 they are adding I-Go cars to the options for car-sharing.

Hybrids/Flex Fuel

U of I Chicago is increasing its fleet with alternative fuel vehicles. They took delivery of one hybrid bus and are waiting for two more in FY2013, as well as producing biodiesel to power the EHSO truck (purchased for FY2012). For FY13, the **Property Tax Appeal Board** will lease flex-fuel vehicles from Central Management Services, which will reduce operation of automotive costs and gasoline charges. Older vehicles are being replaced with flex fuel vehicles at **The Secretary of State**.

NIU continued the purchase of fuel efficient vehicles and education of users regarding engine idling. Since 2004, all sedans purchased have been hybrids; the most recent SUV purchases were also hybrid. When hybrid vehicles are not available, either flex fuel or biodiesel capable vehicles are being purchased.

The Illinois State Police has a FY12 objective to decrease use of conventional fuels by 2% annually. The percentage of flex fuel vehicles went from 29.3% to 31.7%, a 2.4% increase. **The State Toll Highway Authority** purchased 8 new hybrids and obtained one electric vehicle through CMS in 2012. The agency continued to downsize vehicles wherever possible and expects more to be downsized in the coming fiscal year.

In FY12 the **CDB** replaced three older vehicles with three new hybrid vehicles. In FY13 CDB plans to purchase one flex fuel vehicle to replace an older non-flex fuel vehicle. In FY12 75% of **SIUE's** new vehicles were flex fuel vehicles. **DOC** also purchased more fuel efficient and flex-fuel vehicles. For example, Jacksonville CC purchased three Chevy Impalas as opposed to three passenger vans, resulting in an estimated yearly savings of \$3,000. Robinson CC purchased four new flex fuel passenger vans.

Electric Vehicles

The end of FY12 marked a new beginning for the **Department of Revenue** as they were able to fulfill one of their Green Initiatives to reduce the use of petroleum when selected by CMS Division of Vehicles to receive an electric vehicle (EV). The EV, a Mitsubishi iMiEV, is a 100% electric vehicle that will be primarily used as a utility vehicle transporting mail, work products, and staff within the Springfield area. The battery holds

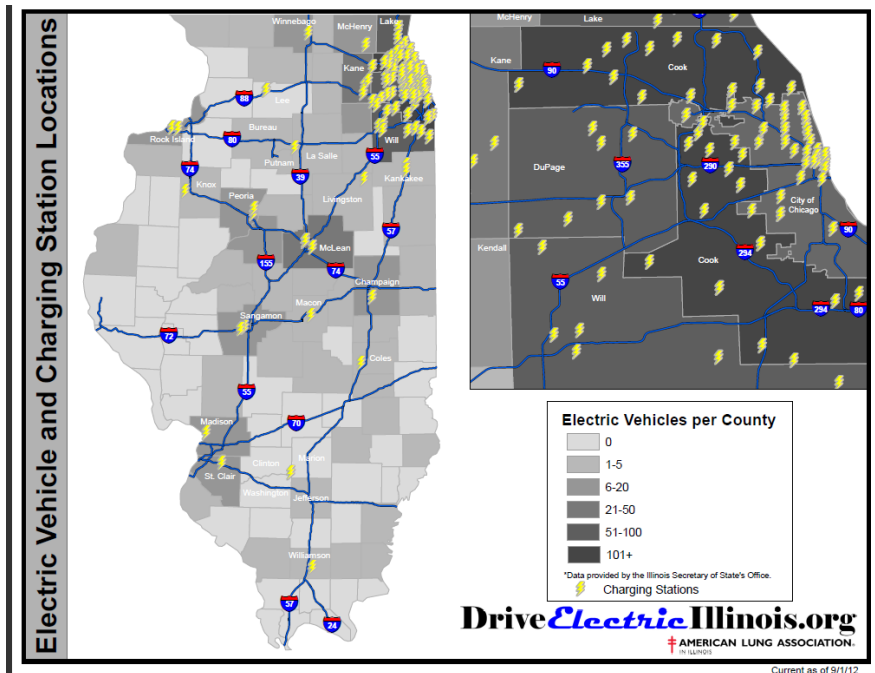
enough charge to power the vehicle for roughly 62 miles, and the current cost to charge the EV is about 4 cents per mile. These facts, coupled with lower maintenance costs and zero carbon emissions, make the EV the perfect solution for complying with Executive Order 11 (2009).

Over the past several years, the **DCEO** Illinois Energy Office has been working closely with the **CMS Division of Vehicles** to administer and implement a project to purchase alternative vehicles with funding awarded to DCEO under the US Department of Energy's American Recovery & Reinvestment Act (ARRA) Energy Efficiency & Conservation Block Grant (EECBG) program. The total

grant funding that DCEO awarded to CMS was \$776,692. The purchases were executed in FY12 and the newly

purchased efficient vehicles have been incorporated into the state fleet across various agencies and locations. Among the new vehicles, CMS was able to purchase electric vehicles, along with charging stations (pictured left), for the first time. The other purchases were 10 flex fuel vehicles and 25 hybrid vehicles. **DCEO**, **CMS**, and the **Governor's Office** collaborated to research new EV technologies, develop specifications for the first-time procurements, and roll out the new EVs to state agencies. The state fleet EV purchases

complement other Illinois EV initiatives including the EV Advisory Council that DCEO chairs; DCEO's charging station rebate program and EV industry grant program; the EV Forum series jointly hosted by the American Lung Association, DCEO, IEPA, and the Illinois Clean Cities Coalition; and IEPA's Alternate Fuel Rebate Program, which provides a rebate of up to \$4000 for purchasing an EV. This year, the first two Electric Vehicle Charging Stations were installed on the **U of I Urbana Champaign** campus at the Garage and Car Pool Building, which coincided with the purchase of two plug-in hybrid sedans. There will be two more plug-in hybrids purchased in FY13, as well as six additional hybrid sedans. This year, the Energy and Utilities Division began using a solar



powered golf cart for moving employees around campus for meetings. In 2011, UIUC was experimenting with several types of sustainable vehicles including e-ride utility trucks, Global Electric Motorcars (GEMS) and Mini Trucks. UIUC has two e-ride utility trucks in the service fleet. Unlike the GEMs, the e-ride trucks are designed specifically for utility tasks and can haul about 1,200 pounds of cargo. A pilot GPS system is being tested that can link the high-idling times with specific drivers. This system also tracks high speeds of vehicles, which can use more fuel than necessary. The system sends an email to the supervisor if an employee exceeds the appropriate vehicle speed.

In the Spotlight: Electric Vehicles

CMS purchased 15 iMiEVs this year for various state agencies with ARRA funds.



At the **Illinois State Toll Highway**, Governor Quinn has advocated an initiative to support the use of electric vehicles and create jobs in sustainable transportation. Motorists can charge an electric vehicle in under 30 minutes using the fast-chargers now installed at 7-Eleven sites at four Tollway Oasis locations, with expansion planned at all seven Tollway Oases.

The state's *Illinois Jobs Now!* Capital plan and a grant from the ARRA Clean Cities Program co-funded the City of Chicago's Chicago-Area EV Infrastructure Project has established a network of over 165 Level 2 EV charging stations and 26 DC Fast Chargers throughout the Chicago metropolitan area.

In July, Governor Quinn signed two laws, one that created an Electric Vehicle Coordinator position within the Department of Commerce and Economic Opportunity and another that gave car-sharing organizations the opportunity to receive funding for the purchase of EVs. As a result of the Quinn administration's commitment to investing in green technology, the all-electric Nissan LEAF was available for purchase early in Illinois.

Alternative/Active Transportation

Biking/Walking

The Department of Revenue implemented a summer 2011 program focused on encouraging employees to exercise. The “REV Up Your Health” program, which ran from June through September 2011, encouraged employees to “Get Up, Get Active and Get Fit”. Employees were encouraged to increase (or start) their exercise activities, including bicycling and/or walking to work. Department employees exercised a total of 61,412 miles, including 6,260 miles commuting to and from work.

IDOT is once again promoting the 16th Annual International Walk to School Day and has sent out information to over 4600 schools encouraging them to register for this event. IDOT participated in Bike/Walk to Work Week for the second straight year this past spring and participants rode almost 800 total miles.

Over 90% of students at the **U of I Urbana Champaign** campus use active transportation to get around the community, such as walking, biking, or mass transit. Additionally, once on campus, 48% of the faculty and 34% of the staff use active transportation, and there has been a decrease in parking permit sales in the University District by approximately 30% for the last three years. Through this partnership dubbed the Campus Area Transportation Study (CATS) the University District has a policy of encouraging bicycling, walking, and transit as preferred travel modes. This year, the CATS Policy Committee passed a “Complete Streets” design guideline to facilitate providing for all travel modes in street designs.

The many exciting improvements for bicycling on campus have earned UIUC national recognition as a Bronze Level Bicycle Friendly University by the League of American Bicyclists. The Department of Kinesiology and Community Health has in place a pilot bike-sharing program, where members of their department can borrow a bicycle to get around campus. An Engineering Learning in Community course is working to expand this program across campus, and provide a system on campus for bicycle rentals by day through Campus Recreation. Also, the University Police Department has 10 officers patrol on bikes and acquired two “Sentinels” in 2011. The “Sentinels” are electric, three-wheeled vehicles equipped with lights and a siren. The Police Department also partnered with Facilities and Services to develop and promote a new online bicycle registration system for campus.

A Bike Planning committee at **U of I Chicago** was formed under the auspices of the Office of Sustainability to develop a plan for bicycles on campus and deal with a number of related issues such as bike parking, safety and security, and routes.

In May 2012, the **Department of Revenue** participated in the Springfield-Sangamon County Regional Planning Commission’s “Curb Your Car Challenge”. The department finished first in the large employer category and had, by far, more employees than any other agency who walked, biked, or bused to work during the week. A total of 6% of the department’s employees at the Willard Ice Building participated in the week-long event. The Sustainability Committee and the Revenue Employee Club led the effort to encourage employees to participate in this event through outreach efforts in the weeks preceding the event. The **Governor’s Office of**

Management and Budget also participated in the state of Illinois annual "Curb Your Car/Bike to Work Week" with 13% of the workforce participating.

The Illinois Racing Board continued use of I-Pass and garage transponders to reduce idling emissions. They also encouraged the use of Amtrak for downstate travel and CTA for Chicago. Several individuals at the **Illinois Arts Council** continue to ride their bikes to work, and the IAC requires all staff members either to car pool or take the train when attending events.

There have been six new bike and bus shelters added to the **ISU** campus. Riders with a valid ISU ID can now use the Bloomington-Normal transit system for free. These services include Redbird Express, Nite Ride, Late Nite Ride, and Universal Access. Another initiative taking place on campus is Zimride- ridesharing. ISU also has a student run bio-diesel program that provides the University with over 5,000 gallons of bio-diesel each year.

The Feasibility of Energy Crop Production in Illinois Right-of-Ways Study is an Inter-Agency Agreement between **IDOT** and the **University of Illinois**. The goal of this study is to investigate the use of Illinois highway right-of-ways for energy crop production to generate additional revenue to defray the cost of road maintenance and improve the environment. This is a 3 year project. The cellulosic grasses can be used to produce ethanol for E-85 and pelletized to use as fuel for heat or electricity to reduce dependency on foreign oil and reduce pollution. Site preparation and planting began in May 2012, and growth continues to be monitored as IDOT prepares for planting in FY13.

E. Facilities

Reporting agencies made great strides in improving sustainable operations in their facilities. Energy savings in significant numbers were successfully reported this year. In addition to saving money and reducing consumption of energy, agencies worked to increase efforts in retrofitting, solar and wind power, water conservation and waste reduction. In general, all agencies that reported enacted or continued practices that helped consolidate facility equipment, improved efficiency and set new precedents for future years.

Items sent to/received from CMS Surplus

Agencies that were proactive in utilizing the surplus program include **IEMA** (10 items), **CMS** (gets 95% of all office furniture from CMS Surplus Property) **SILATC** (20-30 items), **Lt. Governor's Office** (25 items), **DOC Vienna** (5 vehicles), **PTAB** (5 items), **U of I Springfield** (28 items), **Healthcare and Family Services** (300 cubicle/partition walls), and **ICJIA** (5 vehicles).

Electronic hardware and imaging devices recycled by **CMS** totaled 57,719 pieces of equipment. Related cost savings totaled \$5,277,834.96. Cost savings are calculated based on number of hard drives wiped, electronic items recycled and savings in transportation.

The Surplus division at **U of I Urbana Champaign** reported that 4,289 equipment items were obtained from surplus versus purchasing new in FY12. Moving forward, collaboration is underway to develop an online

bulletin board to aid with internal equipment transfers. The **U of I Springfield** campus has a website, uisapp-s.uis.edu/surplus/ which is used to locate surplus items.

Energy Reduction

Retrofitting

At the **Illinois Racing Board**, the agency continued to implement a building-wide re-lamping project at the headquarters building, converting from T-10 fluorescent lamps with magnetic ballasts to T-8 lamps with electronic ballasts. 50% of the project has been completed and 105.7 tons of material has been recycled.

FY 12 capital improvement measures at **The Department of Transportation** include replacing T12 fluorescent fixtures with T8 fixtures, retrofitting interior and exterior LED/high efficiency lighting, replacing old boilers with more energy efficient models, and retrofitting a tank-less water heater and high efficiency HVAC.

NIU and **The CMS Bureau of Property Management** are pursuing performance contracting vendors to assist in the retro-fitting of T-12 ballasts to T-8s in FY13. **BoPM** is also implementing Performance Contracting to renovate six high energy intensity complexes in Cook County during FY 2013.

Retrofitting at **SIUE** included lighting controls and occupancy sensors for lighting throughout Peck Hall and Vadalabene Center, replacement of exterior windows on Rendleman Hall, installation of variable frequency drives, high efficiency boilers and air conditioning units in various buildings.

Over the past several years, the **DCEO** Illinois Energy Office has been working closely with **CDB** to administer and implement energy efficiency building retrofits at state facilities with funding awarded to DCEO under the US Department of Energy's ARRA act EECB Grant. The total grant funding that DCEO awarded to CDB was \$7,957,148. CDB completed fifteen energy efficiency retrofit projects in State of Illinois facilities, complementing other renovation projects that were funded through the *Illinois Jobs Now!* Capital bill. Eight of the projects were lighting retrofits and the remaining seven were HVAC replacements or upgrades and controls improvements.

In the Spotlight: Public Building Benchmarking Labeling Study Report

Lead author Steve Kismohr of Midwest Energy Efficiency Alliance

Co-authors Lisa Mattingly of the CDB and Donald Barnes of CMS

The State of Illinois General Assembly enacted Public Act 096-0896 with the goal to “identify a simple and easily understood label for a building or facility that indicates its energy use.” Ideally, this Act was created to implement a pilot benchmarking and building energy labeling program for State Owned Facilities. The Capital Development Board (CDB), along with the Department of Central Management Services (CMS), convened a stakeholder group in April of 2012.

Led by the CDB and CMS, the goal of this study was to pilot a method of identifying, collecting, and analyzing building energy data within the context of the on-going State of Illinois facilities management practices. Existing databases and low cost tools were used to compile building asset information and energy

consumption data into a benchmarking database. By processing this information with an energy rating tool, consumption figures were compared across building types and determined how facilities' energy use related to each other.

The State Owned buildings included in this study are the Bilandic Building, The Champaign Regional Office Building, The Suburban North Regional Office Building and the James R. Thompson Center. The stakeholder group selected the EPA ENERGY STAR Portfolio Manager tool as a means to track the energy use of State buildings. The Bilandic Building, located at 160 N LaSalle St. in Chicago, continues to maintain similar energy consumption levels recorded when it was awarded an ENERGY STAR Label 2010. The Suburban North Regional Office Building, at 9511 Harrison St. in Des Plaines, also scored well enough to earn an ENERGY STAR Label, which was not previously confirmed. The lighting retrofit work currently underway at the James R. Thompson Center in Chicago was not recognized in the data comparisons as a high performing building due to the ongoing nature of the project. However, once work is complete, and preferably after a full year of utility data is logged, an accurate picture of the savings can be verified and could yield an ENERGY STAR rating for the building. The **table** below illustrates the energy use reductions since the baseline was established in mid-2011.

Facility Name	Gross Floor Space (Sq. Ft.)	Percentage Change from mid-2011 Baseline to mid-2012: Adjusted Energy Use (%)	Baseline Energy Period Ending Date	Current Energy Period Ending Date
Bilandic Office Building	445,145	-5.1	5/31/2011	5/31/2012
Champaign Regional Office Building	55,005	-7	5/31/2011	5/31/2012
James R Thompson Center	1,200,000	-0.2	5/31/2011	5/31/2012
Suburban North Regional Office Building	443,865	-0.5	5/31/2011	5/31/2012

U of I Springfield has changed out over 95% of all lighting fixtures and ballasts to higher efficiency fluorescent lighting and has installed occupancy sensors in almost all classrooms and restrooms. They have begun testing with exterior LED lighting and intend to do more in lighting efficiency. High efficiency lights have been installed in the main Agriculture building of the **Department of Agriculture** as well as LED streetlamps throughout the fairgrounds.

The Auditor General continues to use programmable thermostats, energy efficient and motion sensor lighting, automatic sleep mode for printers/copiers, low water use toilets and quick heat/reduced flow water faucets.

The State Board of Education continues the practice of tuck pointing, sealing of windows to minimize energy loss, and continues to set building thermostats as higher levels in the summer and lower levels in the winter to conserve utilities and costs. In Feb. of 2012 the Board, through CMS, entered into a new lease at a more modern/up-to-date (energy efficient) facility that should increase their overall green effectiveness.

In FY 2012, the **Illinois Historic Preservation Agency** enacted preservation programs and initiatives that stimulated the major rehabilitation of historic buildings that could otherwise have been demolished. This avoided the impact of more than 220,000 tons of CO2 that would have been needed to create new buildings. All of these renovated buildings had reduced operating energy, which reduced CO2 levels as well as avoiding the waste created by demolition.

ISU is completing its first energy services company (ESCO) project. This nearly \$9 million project will be repaid in eighteen years with the savings in energy. A sample of the types of projects completed include lighting efficiency and water conservation upgrades in the science labs, Milner library and the heating plant, mechanical upgrades in the rare books room of the Milner library, fume hood removal in science lab building, and campus chiller replacement and upgrade.

In FY2013 **UIC** is planning numerous energy efficiency projects that total over \$4.5 million in project costs. UIC is participating in the Energy Efficiency Retrofit project, funded by the Joyce Foundation - a project that would enable approximately 12 Chicago area universities to create a model for sharing information about what has and has not worked in implementing energy efficient upgrades at these universities.

Steam valve repairs at **DOC** Dwight are expected to save nearly \$55,000 per year in energy costs and have already contributed to the reduction of nearly \$175,000 in natural gas costs between FY11 and FY12. Additionally, the repairs will reduce the amount of natural gas being consumed by the facility.

In the Spotlight: Energy Reduction at U of I Urbana Champaign

The **U of I Urbana Champaign** campus has exceeded its goals for energy reduction. The 2015 goal for energy reduction is 20% from a 2008 baseline. Already through 2012 campus has achieved a 25% energy reduction. Greenhouse gas emissions related to building energy use are down 23%; again well ahead of the 2015 goal. These outstanding reductions are due to several efforts and initiatives performed by many, including retro-commissioning (RCx) teams, lighting retrofits, steam pipe insulation, energy recovery wheels and deferred maintenance projects.

Since August of 2007, the RCx team has grown from 5 to 17 skilled members. As a whole, they have accomplished system updates and upgrades in 35 campus buildings with an average energy reduction of 29%. The avoided energy consumption that this has accrued is approximately 1,150,000 MMBTU, representing approximately \$5,150,000 in annual avoided utility costs. As of September 2012 approximately 5.2 million gross square feet, or 40% of the campus academic space have benefitted from RCx. In addition, variable frequency drives (VFDs) have been installed in several buildings. The VFDs save energy by using only enough power to meet the real time demand to efficiently run the HVAC system. Other achievements include installation of occupancy sensors, and evaluation/reconfiguration of chemical fume hoods.

CMS achieved energy reduction across the board, consuming less kilowatt hours and natural gas. They also increased their percentage in renewable source utilization and recycled material. The **table on the right** illustrates how much CMS has achieved in the past year.

CMS	2011	2012
Kilowatt Hours Consumed	594,964,837	526,000,000
% Electricity Renewable	0%	32%
Natural Gas Consumed (Therms)	42,000,000	35,000,000
Recycled materials	1,142 tons	3,897 tons
Fluorescent Light Bulbs Recycled	44,036	206,689

Other agencies that reported impressive energy savings in these terms include the **DOA, DOC, the HPA, the Illinois State Police, NIU, SIUE, The State Board of Education, The State Toll Highway Authority, and U of I Springfield. The Department of Corrections** consumed 17,523,838 less kilowatt hours than 2011, 111,881,440 less therms of natural gas, and 25% of its energy came from renewable sources, as compared to 0% last fiscal year. The DOC also recycled 2,266 more fluorescent bulbs and generated 122,153 more tons of recycled materials.

Solar and Wind Power

A feasibility study for the placement of a wind turbine at Mississippi Rapids Welcome Center on Interstate 80 near the Illinois-Iowa state line has been completed by the **Department of Transportation**. The study found that logistically there is enough space and access, with adequate ground stability to support a 100 foot wind turbine tower and the wind resource is great enough to produce adequate energy.



IEMA has completed a multi-year project to convert the Gamma Detection Network (GDN) to solar power. These solar powered detectors (16 around each nuclear power plant) are used to evaluate environmental impacts and are capable of supplying power to the units for one week. **U of I Urbana Champaign** is working to install a solar farm this fiscal year. The 20 acres of solar panels are expected to produce approximately 7.5 million kilowatt hours of electricity per year over the next 20 years. Based on 2012 electricity data, this will represent 2.1% of electricity coming from renewable sources. **SIUE** is also working on solar power with the installation of a solar array on the new Science Building now under construction. Among the new features at this year's Illinois State Fair (sponsored by the **DOA**) is the *Illinois Energy Zone*, showcasing "safe, smart, clean and green" energy. The area focused on renewable energy displays, activities, engaging safety and energy efficiency programs, guest speakers and giveaways, along with returning presentations such as the arcs and sparks of live power line demonstrations. The solar and wind powered

popcorn popper (pictured left) is just one of the many displays and presentations showcased this year.

Water Conservation

Using a 2008 baseline, the **U of I Urbana Champaign** campus has already achieved a 19% reduction in water use. The campus has begun to utilize efficient water fixtures, and a survey of water leaks was conducted where 19 major leaks were identified. So far, the five worst leaks have been repaired with a result of approximately 35,000,000 gallons per day savings in water use.

Both the **University of Illinois at Chicago** and the **DOA** consumed less water this year compared to 2011. U of I Chicago consumed 211,321,050 gallons less, and the DOA reduced their consumption by 2.3 million gallons.

The Department of Corrections also has an ongoing water conservation project, metering supply water to cooling towers which will allow reduced sewer bills. Boilers are inspected yearly. Hot water and building temperatures are lowered in winter months. Some facilities have also been able to utilize low flow faucets.

IDOT has a FY13 goal to install oil/water separators in their Rockford, East Saint Louis, and Jerseyville maintenance facilities. The agency also decreased water usage by installing low-flow fixtures on water faucets, fixing leaks and drips promptly, and capturing rainwater for the watering of landscapes at rest areas.

Waste Reduction

A major effort to reduce food waste on the **U of I Urbana Champaign** campus is underway. An estimated 1,411 tons of food waste will go to the composting facility rather than to landfill. More recently, two dining halls were measured with a 97% diversion rate, both beyond the standard LEED minimum rate of 75%.

The Dining Services Division of Housing continues to purchase food from more than 17 local growers or processors. In fiscal year 2012 they increased the purchase of local foods by 2%. In addition the volume of produce purchased from the Sustainable Student Farm increased by 30%. Dining Services also purchases dairy products that are produced from the University's own dairy farm.

Further, all of the residential dining halls are tray-less dining facilities. The implementation of tray-less dining has reduced post-consumer waste by almost 5 tons daily, saved 194,145 gallons of water per academic year, 817 pounds of dish detergent, and 50 pounds of rinsing additive. Through a partnership with the Illinois Biodiesel Initiative (IBI), Dining Services donates 100% of its waste vegetable oil for conversion to biodiesel. The biodiesel is sold to the Garage and Carpool for use in the campus fleet vehicles.

NIU made great strides this year in waste reduction, logging 400 less tons of solid waste, and 12,583 more fluorescent bulbs recycled than in 2011. **U of I Springfield** also made progress recycling fluorescent bulbs, with an increase of 674 over 2011's report. **U of I Chicago** recycled 23,662 more bulbs and **DOC** recycled 2,265 more bulbs. At **ISU** the University utilizes compost produced at its farm from livestock waste, landscape waste from the town, and food waste from the dining centers.

CAUGHT GREEN HANDED: FACILITIES



Jennifer Aholt, IDOC

Jen Aholt has brought together most-if not all-the institutions in the Illinois Department of Corrections to recycle and reuse the materials that the facilities use on a daily basis. Tracking all the DOC programs that are regarded as “too vast to track” is an incredible goal that Jen has been able to accomplish. The perseverance and sheer amount of time it takes to accumulate IDOC’s comprehensive report is an almost insurmountable task, but Jen is a dedicated employee that consistently proves up to the challenge. The amount of recyclables, gardens, compost, fuel and electrical equipment that has been affected is too vast amount to keep track of when all 36 prisons come together. Jen has changed the outcome of IDOC and has changed the thoughts and behavior of many staff members. She is truly a leader among staff.



Edward Matecki, SIUE

As Assistant Director for Utilities, Ed Matecki initiated projects in FY 2012 with over \$200,000 in energy rebates and substantial long-term annual savings to the University. As an example, his implementation of retro-commissioning recommendations made for Peck Hall, a 1960s vintage, 138,000 SF academic building are already generating energy savings in excess of 10% with a payback of less than two years.



Sean Carver, IDOT

Sean Carver is the Capital Improvements-Unit Chief for the Illinois Department of Transportation. Sean is independently responsible for directing the support to provide design and construction services of vertical construction projects for IDOT. Sean has worked tirelessly to institute green and sustainable capital improvements at IDOT facilities. At least 55 facilities have green or sustainable components completed, proposed or upcoming.



Jerry Daly, IDOC, Sheridan CC

Chief Engineer Jerry Daly has initiated and implemented several energy efficiency initiatives including the use of timers on equipment and lighting, the installation of energy efficient motors, and the removal of unnecessary equipment - all of which have resulted in the facility reducing natural gas consumption by at least 11,000 therms per year and electric consumption by at least 120,500 kilowatt hours per year. Jerry has assisted with the department’s statewide efforts of sustainability by putting together the most comprehensive Energy Management presentation geared specifically for a correctional facility. This presentation was presented to all 33 facilities and their sustainability committees.

F. Landscaping and Construction

Active participation in gardening, composting, stormwater best practices, and tree planting occurred within the reporting agencies. Construction projects involved pursuit of LEED certification and Energy Star/recycled materials. Individual efforts, highlighted in the 'Caught Green Handed' section, serve as inspiring narratives of the agencies' commitment to sustainability.

Gardens/Composting

The Department of Corrections continues to set an amazing example in planting and local food production. DOC managed gardens of varied sizes at 26 facilities across the state, used both compost and rainwater barrels, and planted 219 trees at various facilities. At the Menard CC DOC created a seed repository that provides seeds to other facilities for landscaping purposes. The Shawnee CC implemented an on-grounds garden with plan of supplementing the dietary with fresh produce, thus reducing the amount necessary to be purchased. They intend to increase the size of their garden next year. The estimated amount of produce during FY12 is 1172 pounds. **DOC's** Lincoln CC has been able to utilize solar energy via a greenhouse. The Robinson Correctional Center is coordinating with **Department of Transportation** by raising 582 tree saplings and 36 bushes to be used in and along state parks and highways. Danville CC and other facilities have begun a composting and recycling program that is expected to greatly reduce the solid waste creation. Small scale vermi-composting has begun at Dwight CC with plans to expand to several other facilities. DOC Decatur has more than 10 gardens, and vegetables and fruit are used to supplement offender and staff meals. They've also begun initial plans begun to create a composting operation. At Vandalia CC, a ten to fifteen acre garden is being developed with plans of expanding the irrigation system that is supplied with river water.

At **U of I Springfield** all wood chipping is used as mulch around existing trees. All compost material is mixed with topsoil and used on the campus. It is estimated that yearly they divert roughly 150 cubic yards or 70,000 pounds of wood chips on campus.

Nearly 100% of campus landscaping at **U of I Urbana Champaign** waste is composted or mulched. Any trees that are removed are chipped, reused leaf debris is stored and composted for use on campus, and grass clippings are returned back to the lawn. The clippings are not bagged, except for rare instances of long grass in high profile areas. The University has identified and implemented 10 No-Mow Zones across campus. Benefits from this effort include lower maintenance costs, fewer emissions from mowers, and the attraction of wildlife to campus. Eventually, some of these areas may be restored to a true prairie. In addition, last fall 6,500 native plants were planted around the ponds of the arboretum.

In the Spotlight: Tree Campus USA

Tree Campus USA is a new, national program launched by the Arbor Day Foundation that recognizes and honors colleges and universities for effectively managing their campus trees as well as fostering the concept of urban forestry beyond their campus borders into the community. **Illinois State University** was one of the 29 inaugural campuses to receive the Tree Campus designation, and the first in the state of Illinois. In the past three years, three parking lots have had ultra-thin, white-topping used in place of conventional bituminous asphalt. The parking lots were in need of resurfacing but rather than applying asphalt, a thin three inch layer of concrete was installed over the existing asphalt. Most conventional concrete applications would require the removal of the asphalt and the installation of six inches or more of concrete necessary to withstand traffic loads. Using ultra-thin allowed ISU to use the asphalt already in place as a “base” for the concrete. They have also installed additional rain gardens, delineated no-mow zones, and reduced their use of annuals.

UIC inventoried 5,400 trees on campus, calculated their environmental impact and compensatory value (\$5 million), held an Arbor Day tree planting event and educational project, and developed a tree care plan. As a result, they received Tree Campus USA recognition that was celebrated by the planting of nearly 40 trees by their students. In FY13 they will develop a water management plan to reduce potable water consumption and increase awareness of water usage on campus.

IDOT coordinates with the **Illinois Department of Natural Resources** to propagate native species of trees, shrubs, and grasses for use on state highway right-of-way. IDOT replaces trees lost to construction activities on a 2-to-1 replacement ratio. For each one lost, two seedlings are planted in its place. The agency has also initiated several efforts to rescue endangered and threatened species of plants from the path of planned construction, moving them to safe havens within or just outside of highway right-of-way. These efforts also are important in cooperation with programs operated by IDNR and the US Fish and Wildlife Service.

Stormwater Management/Water Irrigation

The Comptroller's Office added more plants to the 325 W. Adams facility around the flagpole to help stormwater management. **The Southern Illinois Adult Transition Center** planted a garden to help with water irrigation and to help support the dietary and landscaping around the center to decrease the erosion. At the **DOC** Vienna facility, stormwater management practices are being developed. Containers holding rain water are being used in the garden and flower beds.

For a third consecutive year, **IDOT** is teaming up with Illinois Correctional Industries to provide a rain barrel design contest for Illinois students. Students from third grade through high school are encouraged to submit an artistic design for the exterior of a rain barrel. There will be 50 submissions selected, and those 50 schools will receive a rain barrel. The students can then decorate the barrel and attach it the school for use on its landscape. IDOT also partnered this past spring for the 3rd straight year with Living Lands and Waters to distribute 10,000 oak tree seedlings to schools throughout the state for Earth Day.

CAUGHT **GREEN** HANDED: LANDSCAPING AT DOC

**Dan Hobart, DOC Vandalia and
Charles Evers, DOC Vienna**

Dan Hobart is the Chairman of the Go Green project and Charles Evers is the Co-Chairman of the Going Green Committee. Dan has taken the initiative to create a recycling manual for Vandalia CC, and at present, due to his efforts, Vandalia's gardens have produced 6,900 pounds of vegetables. Recently, a donation of vegetables was distributed to FAYCO Enterprises, Inc., which fed approximately 50 CILA clients within the community. The Administration at Vandalia CC is very proud of these accomplishments and knows that it could not have been accomplished without Dan's vast knowledge and tireless efforts. Charles Evers has managed Vienna CC recycling efforts and flower gardens and developed procedures that enabled Vienna CC to recycle cardboard, plastic, and tin cans, thus far reducing waste by recycling over 8 tons of materials. In addition, Charles has created many flower gardens using only seedlings. He accomplished all of this while continuing his daily duties assigned as Inside Grounds Officer.

Construction

New Energy Star metal roofing is being installed on thirteen dorms and office buildings at the **DOC** Vandalia facility, four buildings are under construction pending LEED certification at **SIUE**, and the **IDFPR** boasts the State's first Green Lease with its lease at 122 S. Michigan, Chicago.

Presently, the **U of I Urbana Champaign** campus has four LEED certified buildings. The Business Instructional Facility completed in 2008 received LEED Platinum certification. Nugent Hall, the newest residence hall, and the Student Dining and Residential Programs Building received LEED Silver certification. Two other buildings under construction will also seek LEED Gold certification. Campus will pursue LEED certification of several other projects in the planning stages. The new Electrical and Computer Engineering building is designed to reach LEED Platinum certification and is also striving for a net-zero energy design.

CDB's FY12 goal to track sustainable elements and monitor the status of LEED projects is ongoing. From the FY10 *Illinois Jobs Now!* Capital Program, CDB has approximately 50 projects which are slated to meet LEED requirements. Of those, 33 are in design and/or construction. 30 should receive Silver Certification, 2 should receive Gold Certification and the Electrical and Computer Engineering Building at **U of I** is on track for Platinum Certification. The building was designed and constructed to LEED Silver standards. The Truman City College Student Services Building was completed last year. The LEED certification paperwork was recently submitted and the design team believes that they will meet enough credits for Silver certification. In FY12 CDB researched which roofing manufacturers have recycling programs and the costs associated with those programs.

CAUGHT GREEN HANDED: CONSTRUCTION

Mike Jackson, FAIA, Illinois Historic Preservation Agency

The renovation of existing buildings is generally considered the number one strategy in any climate change action program. Over the last dozen years, Mike Jackson, FAIA has been part of the national leadership in researching and promoting historic preservation as a sustainability program. In 2012, the publication of a technical study “The Greenest Building: The Environmental Value of Building Reuse”, put the facts, methodologies and positive green benefits of historic preservation into the national spotlight. Mike was a catalyst for and peer reviewer of this groundbreaking study.

John Luchsinger, DOC Dwight

John, Chief Engineer at Dwight CC, built Dwight’s first greenhouse (pictured right) from recycled materials which allowed for them to expand their gardening efforts in the last year. John created a partnership with the University of Illinois Extension Office to provide lessons once per month to the offenders and staff on a variety of topics. The garden has more than quadrupled in size from last year and



continued expansion is consistently being evaluated. Along with garden expansion, John has inspired an expansion of educational opportunities to the offenders in green careers and is investigating opportunities to provide certificate classes to the offenders. He implemented small scale vermicomposting, spearheaded the project, “Planting for the Future” with the Dwight CC employees, and called for a steam trap survey which was completed at the facility in late 2011. By completing this survey, he was able to repair and replace faulty steam traps in four of its buildings. Finally, John has been diligently exploring such initiatives as Urban Gardening Practicum for mushrooms, bean sprouts, aqua culture, fish and food production. His current experiment is with LED street light all pack and LED fluorescent bulb replacements. DOC is tremendously lucky to have John Luchsinger.

Roland Miles, DOC Menard

Roland has worked to not only save the institution money but to also introduce fresh foods to the staff and inmates by bringing back gardening at Menard. While his efforts started small they have grown by leaps and bounds. Roland can be found searching out any open plot to plant; he tucks them between buildings and the wings of housing units and has done so by fashioning “earth movers” from old cell doors and scrap wood. Menard has a robust gardening program thanks to Roland that not only provides fresh produce to the facility dietary department, but also provides gardening and horticulture skills to assigned offenders. In the past Menard’s greenhouse was dismantled so Roland created a hoop house to serve as the facilities greenhouse



(pictured left). This greenhouse and the recent growth of the composting effort to divert waste have been tools for a better garden but most importantly learning opportunities for the inmates.

G. Education

Several agencies have developed Sustainability Plans, best practices, “Green” newsletters, projects and environmental news materials that they distribute among their employees on a consistent basis. This year active pursuit of ways to educate their employees and get them involved in practicing sustainability increased at agency-sponsored events, awards programs, updated websites, or simply on a day-to-day basis.

Educational Materials

Over half of the agencies that reported hold sustainability committee meetings at various times over the course of the year. Agencies that have the most frequent (monthly or more regular) meetings include the **DOC, The Southern Illinois Adult Transition Center, DOA, DOR, IDOT, ISU, SIUE, and UIC. The Department of Corrections** announced the release of its Sustainability plan in 2012. Information about and the plan itself can be found at: <https://www2.illinois.gov/idoc/aboutus/Pages/Sustainability.aspx>. DOC Dwight has minutes of sustainability meetings electronically available to all facility employees, and discusses sustainable ideas at staff meetings. The **IDOT** Green Initiatives Website is used to communicate sustainability information to employees. **SIUE** uses www.siue.edu/sustainability and a listserv to educate employees.

At the **Pollution Control Board**, employees are included on the email list for Environmental News clips that include articles on environmentally friendly practices, which are distributed every business day. **SILTAC** has developed an educational sustainability manual; **The State Board of Education** has an Intranet Green page and monthly sustainability tips in an internal Newsletter. A periodic internal publication called Trailblazer is available on the **State Toll Highway Authority** Intranet and also outside the cafeteria that lists personal and office sustainability activities. Communication has been steady to **Commerce Commission** staff in order to disseminate information about the Public Act, the Sustainability Plan, the Environmental Sustainability Committee and its mission, sustainable practices and postings to the *Green Governments* SharePoint intranet site.

GOMB informs employees of sustainability projects and announcements across the state by using email and a designated corkboard/dry erase board. The mission for the **Northern Illinois University** Task Force on Sustainable Campus Environment (Green Team) is to promote environmental responsibility and innovation

throughout the institution, including its curricula, policies, operational practices, and external ties. Additionally, the task force will meet the requirements of State Law PA95-0657.

The **U of I Chicago** Green Office Challenge is a comprehensive set of sustainability initiatives that offices can implement. Information can be found at <http://www.uic.edu/sustainability/greenoffice/>. The Office of Sustainability hosts a Sustainability Week in September and coordinates a number of events during Earth Month. During the school year, they send out a bi-weekly newsletter called GreenLights that features news, events, and employment/internship opportunities. A weekly column 'Shades of Green' is written in the UIC newspaper. The Office of Sustainability maintains a website, found at sustainability.uic.edu that keeps the campus up to date.

Hands-on sustainability education

The Illinois Campus Sustainability Compact Awards were held at the McDonald's Conference Center on Friday, November 10th, 2012, recognizing public and private universities and colleges that have fulfilled the Illinois Campus Sustainability Compact. The Compact program was revised in 2011 to provide a framework for sustainability goals to be achieved by 2015. It outlines objectives such as purchasing renewable energy, implementing green building practices, developing sustainable transportation options, improving water conservation, and incorporating sustainable dining practices. As a university or college makes progress on its sustainability goals, the campus can apply for recognition when they have achieved bronze, silver, and/or gold levels. Of the 49 schools committed to the compact, 21 were recognized for fulfilling their commitment and implementing sustainable practices on their campuses. Please click [here](#) for the complete list of schools that participated, and [here](#) for the winners. This list includes Northwestern College, who achieved the Bronze Level of sustainability goals in higher education. The College has pledged to reach the next level of sustainability – Silver – by the year 2015.



On October 28th, 2011, the GGCC, the Illinois Green Economy Network, and Heartland Community College organized the 2011 Sustainable Universities and Colleges Symposium. Already in its sixth year, the symposium was an opportunity for college and university administrators, engineers, architects, professors, and student leaders to exchange ideas in the effort to enhance sustainability at Illinois institutions of higher learning and identify new programs to apply at institutions across the state. This year over 300 attendees enjoyed the record number of panels, participants, and presenters. Topics included local foods, urban agriculture, energy research, and bike sharing. A full agenda is available, [here](#).

Other highlights including keynote speeches from Dr. Allen Goben, President of Heartland Community College, Mayor Chris Koos, Normal, IL, and Governor Pat Quinn. Governor Quinn spoke of the importance of student education and collaboration in sustainability efforts, suggesting that Illinois can be the "Sustainability Capital" of the world with the efforts of environmentally-conscious higher education communities.

Following the Governor's remarks, Julie Elzanati, Executive Director of co-host IGEN, gave a presentation on the collaborative efforts of community colleges in advancing sustainable policies at Illinois higher

education institutions. This message carried particular resonance at this year's symposium as attendees marveled at the sustainability efforts on display at host Heartland Community College. Attendees later had the opportunity to witness these efforts firsthand as they toured Heartland's geothermal-powered Workforce Development Center.

The Auditor General's office participates in Springfield Green's Adopt-A-Street program, in which employees volunteer to pick up garbage along the sidewalks for a two mile section between MacArthur & Martin Luther King Drive on Ash Street. **IDOT** Adopt-a-Highway: The Love the Land of Lincoln campaign engages 17,000 volunteers statewide and removes 32,000 bags of litter annually from 3,400 miles of highway.

Each year during Quad day, the All Employee Expo, Sustainability Week and Earth Week the campus community at **U of I Urbana-Champaign** is educated and motivated to take actions to be better stewards.

CAUGHT GREEN HANDED: EDUCATION

Dave Loomis, ISU

Dr. Dave Loomis is Director for the Center for Renewable Energy at Illinois State University. This Center is responsible for education not only at the college level, but throughout the community and nation. Programs such as the Wind for Schools initiative provide schools throughout Illinois with curriculum, instrumentation, and the resources to install wind turbines at their schools. Additionally, Dave is an often sought after expert in policy and regulation. His largest contribution to the greening of the state is his work with students. His span of influence starts in our elementary schools, continues with our college students, and carries forward to our legislature and national business leaders. He is profoundly impactful, and a true asset to the State of Illinois.

IV. Conclusion

State agencies' commitment to sustainability this year was seen most notably in reduction of energy consumption and increased usage of alternative transportation. Additionally, agencies made great strides in recycling, the reduction of paper consumption, increased usage of electronic communication, items purchased with recycled material, and getting employees involved and informed about making sustainable choices every day.

All agencies that provided a Sustainability Commitment Statement mentioned their communities and how making sustainable choices has a positive effect on their overall area of operation. Sustainable education was actively pursued and made evident with the programs created and reinstituted, outreach via electronic communication and tangible efforts to get agency members involved and excited about sustainability. State agencies vowed to reinforce effective spending habits, reduce waste, and educate the community members of recycling opportunities to create a better future designed to consume less.

While the GGCC is very impressed with the reporting agencies' accomplishments in 2012, it is evident that there is still progress to be made. Areas that the majority of the agencies will focus on in FY13 include:

- **Office Practices:** Developing systems, programs and projects to save money and reduce energy and paper consumption, conserve water and educate employees and the community how they can get involved and make sustainable choices. Implementing reviews for sustainability and writing documents to include sustainability language. More detailed tracking, reporting and analysis of where improvements can be made.
- **Transportation:** Further utilizing car-sharing vehicles and services. Taking advantage of flex fuel vehicles and hybrids available through CMS, purchasing vehicles that are E-85 compatible, and installing more EVs and charging stations. Instituting plans to promote alternative transportation.
- **Facilities:** Retrofitting facilities with more energy efficient installations/items.
- **Landscaping and Construction:** Expanding gardens for local food production, irrigation systems, and composting. Pursuing LEED certification and ENERGY STAR rating.
- **Education:** Developing more frequent sustainability programs and events.

By observing, researching and implementing sustainable business practices, the agencies strive to meet the needs of the current generation while ensuring the needs of future generations are met. As governmental departments, they are obligated to pursue sustainability and seek to act as leaders in conservation, efficiency, and environmental citizenship in Illinois. The Green Governments Coordinating Council is very proud to report this year's accomplishments in sustainability and is eagerly anticipating the many initiatives and goals to be carried out in FY2013.